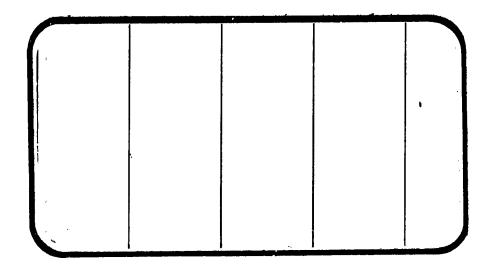


NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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(NASA-CR-144622) TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN (.: 3) -SCALE MODEL (47-) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/P IN THE AMES RESEARCH CENTER 11 X G3/. 2 49186

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JEACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services



DMS-DR-2254 NASA CR-144,622 VOLUME 4 OF 13

TERMINAL AREA ENERGY MANAGEMENT
REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE
MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE
ORBITER CONFIGURATION 140A/B/C/R IN THE
AMES RESEARCH CENTER 11 X 11 FOOT
TRANSONIC WIND TUNNEL (0A148)

by

P. J. Hawthorne Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services Chrysler Corporation Space Division New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center National Aeronautics and Space Administration Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:

ARC 11-073

NASA Series Number:

0A148 47-0

Model Number: Test Dates:

May 5 through May 17, 1975

Occupancy Hours:

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

TERMINAL AREA ENERGY MANAGEMENT

REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE

MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE

ORBITER CONFIGURATION 140A/B/C/R IN THE

AMES RESEARCH CENTER 11 x 11 FOOT

TRANSONIC WIND TUNNEL (0A148)

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P. J. Hawthorne, Rockwell International Space Division

ABSTRACT

This report documents data obtained in wind tunnel test OA148. The objectives of the test series were to:

- 1) obtain pressure distributions, forces and moments over the vehicle 5 Orbiter in the terminal area energy management (TAEM) and approach phases of flight.
- 2) obtain elevon and rudder hinge moments in the TAEI and approach phases of flight.
- 3) obtain body flap and elevon loads for verification of loads balancing with integrated pressure distributions.
- 4) obtain pressure distributions near the short OMS pods in the high subsonic, transonic and low supersonic Mach number regimes.

Testing was conducted over a Mach number range from 0.6 to 1.4 with Reynolds number variations from 4.57 x 10^6 to 2.74 x 10^6 per foot. Model angle-of-attack was varied from -4 to 16 degrees and angles of side slip ranged from -8 to 8 degrees.

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PLOTTED COEFFICIENTS SCHEDULE:

- A) CY, CYT and CBL versus BETA
- E) CT., CA and CLM versus ALPHA
- C) CHEO, CHEI, CHETOT and CHBF versus ALPHA
- CP versus X/LB

<u></u>

- CP versus X/CW
- CP versus X/CV

NOMENCLATURE

	D	
Symbol	Plot Symbol	Definition
Ab	ΛВ	total Orbiter base area, ft2
Ai	Ai	area over which P4 acts, ft2
A _{sb}	ASB	speed brake base area, ft ²
b	BREF, BW	Orbiter wing span, in
b_V	BV	vertical tail reference span, in
$^{C}A_u$	CAU	Orbiter uncorrected axial force coefficient
c _A	CA	Orbiter axial force coefficient with sting cavity adjusted to average base pressure
c_{A_F}	CAF	Orbiter forebody axial force coefficient.
CAsc	CASC	Orbiter sting cavity axial force coefficient.
$c^{D\Pi}$	CDU	Orbiter uncorrected drag coefficient
c _{hbf}	CHBF	body flap hinge moment coefficient, about hinge line $X_0 = 1532.0$
C _{hei}	CHEI	inner elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
c _{heo}	CHE0	outer elevon hinge moment coefficient, about hinge line $X_0 = 1237.0$
с _{Не} тот	CHETOT	total right elevon hinge moment coefficient
c_{L_U}	CLU	Orbiter uncorrected lift coefficient
Cg	CBL	Orbiter rolling moment coefficient, body axis system

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
C _m	CLM	Orbiter pitching moment coefficient with sting cavity adjusted to average base pressure, referenced to Orbiter MRC.
c_{m_u}	CLMU	Orbiter uncorrected pitching moment coefficient
c^{mk}	CLMF	Orbiter forebody pitching moment coefficient referenced to orbiter MRC.
C _{msc}	CLMSC	Orbiter sting cavity pitching moment coefficient, referenced to Orbiter MRC
c_{N_u}	CNU	Orbiter uncorrected normal force coefficient
C _N	CN	Orbiter normal force coefficient with sting cavity adjusted to average base pressure
$c_{N_{\overline{F}}}$	CNF	Orbiter forebody normal force coefficient
$c_{N_{SC}}$	CNSC	Orbiter sting cavity normal force coefficient
c _n	CYN	Orbiter yawing moment coefficient, body axis system
Cpi	CPi	surface tap pressure coefficient, port i, $(P_i - P_{\omega})/q$
Сү	CY	Orbiter side force coefficient
c[x][Y]	C[X][Y]	base area force and moment coefficients. The first subscript (post fix) designates the type of coefficient, the second the pressure tap and it's associated area. The symbolic
[x]=		vectors [X] and [Y] are defined below.
A N Y m n	A N Y LM YN BL	axial force normal force side force pitching moment yawing moment rolling moment

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
[[Y]]	in .	
1,2,3 4,5,6 sc bf	1,2,3 4,5,6 SC BF	areas associated with pressure taps 1 through 6 see figure 2b sting cavity area upper body flap area
1 _b	LB	Orbiter reference body length, IML nose to X _O = 1528.3, in.
² REF	LREF	longitudinal reference length, Orbiter mean aerodynamic chord, in
	LU/DU	uncorrected lift to drag ratio, CLU/CDU
М	MACH	freestream Mach number
Ф	PHI	angular cylindrical coordinate position around Orbiter body - deg.
Pi	Pi	pressure at surface tap i, PSF
ρ _∞	P	freestream static pressure, PSF
Pt	PT	freestream total pressure, PSF
q	Q	freestream dynamic pressure, PSF
	RN/L	unit Reynolds number, million per foot
S	SREF	wing reference area, ft ²
τ_{t}	TTR	freestream total temperature, °R
Х _{ср}	XCP/L	center of pressure location referred to $1_{\mbox{\scriptsize b}}$
X_o/L_o	X/LB	longitudinal location of body surface, fraction of body length

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NOMENCLATURE (Concluded)

(symbol	Plot Symbol	Definition
x\c	X/CW	chordwise location on wing surface. fraction of local chord
X/C _V	X/CV	chordwise location on vertical tail, fraction of local chord
n_{V}	Z/BV	spanwise location on vertical tail, fraction of vertical tail span
η	2Y/BW	spanwise location on wing, fraction of semi span
X _{airp}	XMRP	longitudinal location of moment reference point
XT	XT	longitudinal moment transfer distance from Orbiter balance center to Orbiter MRC, in
Ymrp	YMRP	lateral location of moment reference point
Z _T	ZT	vertical moment transfer distance from Orbiter balance center to Orbiter MRC, in
a	ALPHA	angle of attack, degrees
β	ВЕТА	angle of sideslip, degrees
^δ bf	BDFLAP	body flap deflection, degrees
δeL	ELVN-L, L-ELVN	left elevon deflection, degrees
$\delta_{ extsf{eR}}$	ELVN-R, R-ELVN	right elevon deflection, degrees
δr	RUDDER	rudder deflection, degrees
^δ sb	SPDBRK	speed brake deflection, degrees
Z _{imrp}	ZMRP	vertical location of moment reference point
·	\$\$	mask character used to indicate all possible values for this test Ol through 85

REMARKS

During the course of the test it was necessary to replumb the scanivalves. The resultant time loss necessitated deleting the priority 4 runs which incorporated the use of the metric vertical tail.

Data obtained from pressure taps 184, 296 and 347 are suspect due to slow leaks noticed while leak checking individual model pressure taps.

Body flap hinge moment data for datasets RE8001 through RE' 5 have a -15% drift while datasets RE8006 and RE8007 have a +10% drift while to data recording system errors. System checks duri mainder of the test indicate a system error of less than 4. For body flap hinge moment data.

Rolling moment data has an approximate -.003 bias in the coefficient. The reason for this was not determined, but possible sources are fabrication tolerances and/or differential stiffness of the left and right elevon panels.

Distortion of the instrumented elevon shaft appears to have occurred around run 310 due to model assembly difficulties and the maximum loads encountered at these test conditions. A comparison of measured elevon deflection before and after the test with the nominal setting is presented below:

Elevon Panel	Nominal Nominal	Pre-Test	Post-Test
Inboard right	$ \begin{cases} -10 \\ -4 \\ 0 \\ 4 \\ 10 \end{cases} $	-9° 36' -3° 34' +0° 10' +4° 26'	-8° 55' -2° 55' +1° 02' +4° 28'
Outboard right	$ \begin{cases} -10 \\ -4 \\ 0 \\ 4 \\ 10 \end{cases} $	+10°32' -9° 36' -3° 34' +0° 10' +4° 26' +10°32'	+10°39' -8° 15' -2° 20' +1" 05' +3° 59' +10°18'

^{*} Inboard only was measured but was the same as outboard panel(see Ref 2)

CONFIGURATION INVESTIGATED

The Rockwell International model 47-0 Space Shuttle Orbiter Vehicle was utilized in this test series. The model was originially constructed to -140A/B lines, but was modified prior to this test with the addition of the -140C OMS pods, six inch bevelled interpanel elevon gaps and uncovered RCS forward thrustor parts. To denote these additions, the additional designations "C" (for -140C OMS pods) and "R" (for RCS thrustors) were added, and the slashes deleted for convenience on Table II(designated "-140 ABCR").

In data sets RE8069 to 085 the RCS thrustor ports in the nose were filled reverting the configuration to -140A/B/C modified with body $\rm B_{26}$.

The following nomenclature denotes the model components:

Component	Description
B ₂₆	140A/B fuselage (VL70-000140A, VL7C000140B)
^B 70	140A/B fuselage (VL70-000140A, VL70-000145, VL70-000140B, VL70-000143A, VL70-000139) with RCS thrustor parts (VL70-08501, VL70-08502, VL70-08296)
c ₉	140A/B basic canopy (VL70-000140A, VL70-000143A)
E ₄₄	140A/B elevons (VL70-000200, VL70-006089, VL70-006092) with six inch bevelled interpanel gaps, no flipper door
F ₉	140A/B body flap (VL70-000140B, VL70-000200)
^M 16	OMS-RCS pods for 140C Orbiter
r ₂₈	OMS basic nozzles
R_5	basic Orbiter rudder (VL70-000146A, VL70-000095)
v ₈	basic Orbiter vertical tail (VL70-000140A, VL70-000146A)
W ₁₁₆	basic 140A/B wing (VL70-000140B, VL70-000200)

CONFIGURATIONS INVESTIGATED (Concluded)

Designated configurations are:

-140ABCR $= B_{70} C_9 E_{44} F_9 M_{16} N_{28} R_5 V_8 W_{116}$

-140 ABC = B_{26} C_{9} E_{44} F_{9} M_{16} N_{28} R_{5} V_{8} W_{116}

TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11- by 11-Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at Reynolds numbers from 1.7 x $10^6/\mathrm{ft}$ to 9.4 x $10^6/\mathrm{ft}$. The test section is 22 feet long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.

Tunnel operating temperature is 580°R. Extended high Reynolds number runs are restricted by power availability.

DATA REDUCTION

Standard NASA/Ames data reduction equations were used to reduce forces, moments, and pressures to coefficient form. Orbiter main balance force and moment coefficients were computed using the following equations:

	Symbol	Orbiter main balance measurement
	NF AF PM YM SF RM	Normal Force Axial Force Pitching Moment Yawing Moment Side Force Rolling Moment
c _{Au} =	AF / (q S)	$C_{L_u} = C_{N_u} \cos \alpha - C_{A_u} \sin \alpha$
c _{Nu} =	NF / (q S)	$C_{D_u} = C_{N_u} \sin \alpha + C_{A_u} \cos \alpha$
C _Y =	SF / (q 5'	
c _{mu} =	$\frac{PM}{qS_C} + \frac{C_A \cdot Z_T}{c} -$	$\frac{c_N \cdot x_T}{c}$
C _£ =	$\frac{R M}{qS_b} + \frac{C_{\gamma} \cdot Z_T}{b}$	Moment Transfer Distances $X_T = 0.572 \text{ in.}$
c _n =	$\frac{A^{2}P}{d^{2}P} - \frac{CA \cdot XL}{P}$	$Y_{T} = 0$ $Z_{T} = 0.450 in.$

The Moment Reference Center about which the data was reduced is located at

Balance coefficients were grouped into datasets RE80\$\$.

Hinge moments and hinge moment coefficients were computed using the following equations:

Elevon hinge moments (inboard and outboard).

$$HM_{e_{\uparrow}} = (HM1-HM2) (M1/D1) + HM1$$

$$HM_{eo} = (HM3-HM4) (M3/D3) + HM3$$

where

HMi = measured moment on strain gage i

D1 = distance between gages 1 and 2, .49335 in.

D3 = distance between gages 3 and 4, .45800 in.

M1 = moment transfer distance for inboard elevon, .93825 in.

M3 = moment transfer distance for outboard elevon, .92250 in.

Elevon hinge moment coefficients

Inboard,
$$C_{H_{e_1}} = H_{M_{e_1}} / (q S_e c_e)$$

Outboard,
$$C_{H_{eo}} = H_{M_{e_o}} / (q S_e c_e)$$

Total,
$$C_{H_{e_{TOT}}} = C_{H_{e_1}} + C_{H_{e_0}}$$

 S_e = elevon reference area, 0.189 ft.²

 c_e = elevon reference MAC, 2.721 in.

Body flap hinge moment coefficient

$$C_{H_{bf}} = HM_{bf} / (q S_{bf} bf)$$

HMbf = measured body flap hinge moment

S_{bf} body flap reference area, 0.12834 ft.

cbf = body flap reference MAC, 2.541 in.

Hinge moment coefficients are part of datasets RE8X\$\$.

Pressure coefficients for all model orifice pressure measurements were computed using this equation:

$$C_{P_i} = (P_i - P_{\infty})/q$$

where P_i = pressure at model orifice i

 P_{∞} = tunnel static pressure

q = tunnel dynamic pressure

Other data reduction constants include:

 $S = wing reference area, 2.4210 ft.^2$

c = wing reference chord, 14.2443 in.

b = wing reference span, 28.1004 in.

After the data had been reduced to coefficient form by NASA/AMES,DMS interpolated it to nominal α 's and β 's. Then 2 types of base and sting cavity area coefficients were calculated. When they are applied 3 types of balance coefficient data exists. These can be distinguished by the last subscript (symbolic name) or postfix (mnemonic name). The key is given below

- U ~ uncorrected coefficients.
 - coefficients with sting cavity pressure corrected to base pressure (without a suffix).
- F ~ forebody coefficients with the base area pressure corrected to freestream pressure.

Only the correction coefficients associated with base pressure tapes 1 through 4 were applied to the longitudinal orbiter coefficients.

Figure 2b illustrates the base area associated with each pressure tap. Alphabetic characters bf and sc designate body flap and sting cavity areas, respectively. Base area coefficient names have a numeric character which designates the pressure tap number. Base coefficients for vertical tail areas 5 and 6 were calculated but not applied to the total orbiter coefficients. Base area coefficient values are tabulated in the appendix. A detailed derivation of these coefficients follows. It is concluded by a matrix of base area geometric properties.

The orbiter sting cavity force and moment coefficients were computed as:

$$C_{A_{SC}} = \frac{(C_{p2} - C_{p1})}{S} A_{1}$$

$$C_{N_{SC}} = \frac{(C_{p2} - C_{p1})}{S} A_{1} \tan 12.55^{\circ}$$

$$C_{m_{SC}} = C_{A_{SC}} \frac{Z_{t}}{C} - C_{N_{SC}} \frac{X_{SC}}{C}$$

The orbiter force and moment coefficients corrected for the difference between balance cavity pressure and orbiter base pressure:

$$C_A = C_{A_u} - C_{A_{SC}}$$
 $C_N = C_{N_u} - C_{N_{SC}}$
 $C_m = C_{m_u} - C_{m_{SC}}$

These orbiter coefficients are part of datasets KE80\$\$.

Orbiter base force and moment coefficients were calculated as follows:

Upper base area

$$c_{N2u} = -(c_{p2} \Lambda_{2u} \tan 16^{\circ})/S$$

$$c_{A2u} = -(c_{p2} A_{2u})/s$$

$$C_{m2u} = \frac{C_{A2u}}{c} \frac{Z_{2u}}{c} = \frac{C_{N2u}}{c} \frac{X_{2u}}{c}$$

Lower base area

$$C_{N2_g} = -(C_{p2} A_{2_g} \tan 10^\circ)/S$$

$$C_{A2_{\chi}} = -(C_{p2} A_{2_{\chi}})/S$$

$$C_{M2_{\ell}} = C_{A2_{\ell}} \frac{Z_{2\ell}}{c} - C_{N2_{\ell}} \frac{X_{2\ell}}{c}$$

Total base area, A₂

$$c_{N2} = c_{N2u} + c_{N2g}$$

$$c_{A2} = c_{A2} + c_{A2}$$

$$C_{m2} = C_{m2} + C_{m2}$$

OMS pod base area, A3

(This assumes the surface is perpendicular to the orbiter X-axis)

$$c_{A3} = -(c_{p3} A_3)/s$$

$$c_{m3} = c_{A3} \frac{z_3}{c}$$

OMS pod base area, A₄

(This assumes the surface is perpendicular to the orbiter X axis)

$$c_{A4} = -(c_{p4} A_4)/s$$

$$c_{m4} = c_{A4} \frac{24}{s}$$

Coefficients for the above areas are grouped into datasets ET8D\$\$. Upper surface of body flap

$$\frac{c_{\text{Nbf}}}{c_{\text{Nbf}}} = \frac{-c_{\text{pbf}}}{s} \frac{A_{\text{bf}}}{s} \sin \left(\delta_{\text{bf}} + 6.88^{\circ}\right)$$

$$\frac{c_{\text{Nbf}}}{s} = \frac{-c_{\text{pbf}}}{s} \frac{A_{\text{bf}}}{s} \cos \left(\delta_{\text{bf}} + 6.88^{\circ}\right)$$

$$\frac{c_{\text{mbf}}}{s} = \frac{c_{\text{Abf}}}{s} \frac{z_{\text{bf}}}{s} \frac{c_{\text{Nbf}}}{s} \frac{z_{\text{bf}}}{s}$$

where:

$$c_{pbf} = \frac{c_{p200} + c_{p201} + c_{p204} + c_{p205}}{4}$$

The orbiter force and moment coefficients adjusted to free stream pressure (forebody coefficients).

$$c_{A_{F}} = c_{A_{U}} - \left(\frac{-c_{D_{1}}}{s} \frac{A_{1} + \sum_{i=2}^{4} c_{A_{i}} + c_{Abf}}{c_{N_{F}}}\right)$$

$$c_{N_{F}} = c_{N_{U}} - \left(c_{N_{2}} + c_{N_{bf}}\right)$$

$$c_{m_{F}} = c_{m_{U}} - \left(\sum_{i=2}^{4} c_{m_{i}} + c_{m_{bf}}\right)$$

These orbiter coefficients are part of datasets KE80\$\$.

Vertical tail "undercarriage" area, A_5

Top Segment:

$$C_{N5t} = (C_{D5} A_{5t} \tan 63.75^{\circ})/S$$

$$C_{A5t} = -(C_{p5} A_{5t})/S$$

Middle Segment:

$$C_{N5m} = (C_{p5} A_{5m} \tan 26.1426^{\circ})/S$$

$$C_{A5m} = - (C_{p5} A_{5m})/S$$

$$C_{m5m} = C_{A5m} \frac{Z_{5m}}{c} - C_{N5m} \frac{X_{5m}}{c}$$

Bottom Segment:

$$C_{N5b} = (C_{p5} A_{5b} tan 21.94^{\circ})/S$$

$$C_{A5b} = - (C_{p5} A_{5b})/S$$

$$C_{m5b} = C_{A5b} \frac{Z_{5b}}{C} - C_{N5b} \frac{X_{5b}}{C}$$

Total area, A₅:

$$C_{N5} = C_{N5t} + C_{N5m} + C_{N5b}$$

$$C_{A5} = C_{A5t} + C_{A5m} + C_{A5b}$$

$$c_{M5} = c_{m5t} + c_{m5m} + c_{m5b}$$

Vertical Tail base area, A6:

Segment above rudder

$$C_{N6u} = (C_{p6} A_{6u} tan 63.75^{\circ})/S$$

$$C_{A6u} = (C_{p6} A_{6u})/S$$

$$C_{m6u} = C_{A6u} \frac{Z_{6u}}{c} - C_{N6u} \frac{X_{6u}}{c}$$

Rudder/Speed brake base:

Total area, A₆:

$$\begin{array}{rclcrcl} C_{A6} & = & C_{A6u} & + & C_{A6g} \\ C_{N6} & = & C_{N6u} & + & C_{N6g} \\ C_{Y6} & = & C_{Y6g} & \\ C_{m6} & = & C_{m6u} & + & C_{m6g} \\ C_{g6} & = & C_{g6g} & \\ C_{n6} & = & C_{n6g} & \\ \end{array}$$

Vertical tail area coefficient data are grouped into datasets GE8D\$\$.

BASE GEOMETRIC PROPERTIES MATRIX

			Distance between Centroid and MRC	entroid and MRC
Description	Sub- script	Area A - ft.2	vertical Z - in.	longitudinal X - in.
Sting cavity	SC	0.076699	0.45	GEL-SE
Body flap upper surface	bf	0.128	- 2.64	600°C
Orbiter balance cavity		0.076699	0.45	P2 . SE
Orbiter base orifice 2 lower	28	0.133889	- 1.32	12.617
Orbiter base orifice 2 upper	2u	0.0818055	2 o 2	12. GE
Lower OMS pod	ო	0.030472	2.68	F.T.
Upper OMS pod	4	0.074166	3.63	Ş
Vertical tail "undercarriage" bottom	2 b	0.003565	4.612	\$ 50 E
Vertical tail "undercarriage" middle	Sm	0.002610	5.336	620 FL
Vertical tail "undercarriage" top	5t	0.000341	5.97	35.165
Vertical tail above rudder	ng	0.000798	12.656	53 8 8 8
Base area of speed brake	6 8	Varies with spe	Varies with speed brake deflection	

NOTES: Sting cavity and Orbiter balance cavity are synonymous.

456		Λ6 _e ft?
0 25 35 55 85		0,0066036 0,0456000 0,0621000 0,0950800 0,1551400
X68	15.045 +	1.442277 [1-cos (8sb/2)]
Z68 =	9,755 +	0.501827 [1-cos (8sb/2)]

Standard DMS loads cycle test procedures were used to process the OA148 pressure data. First numerous pressure distribution plots were released. Analysis of these produced bad pressure data list. This list is reproduced below:

OA148 Bad Prossure Data

Çomponent	Dataset No.	Tap No.	.ß	.Q.
Fuselagn (B)] 	143 148 150 152 186 187 189	1 4 4 4 4 4 4	-4 -4 -4 -4 -4 -4
Lower Wing (L)	1 → 7 1 → 85 1 1 1 1 1 1 1	193 231 290 316 317 337 338 358 378 379 398	ALL ALL 4 4 4 4 4	-4 ALL -4 -4 -4 -4 -4 -4
Upper Wing (U) Cody Flap (F)	1 + 7 1 24	247 357 205	ALL 4 -4	ALL -4 12
Speed Brake (K)	1 + 85	822	ALL	ALL
Vertical Tail (V)	8 ALL 79 79	443 1444 1453 1454	ALL ALL -4 -4	ALL ALL -4 -4

Note: Wind tunnel pressure data tabulated in the appendix have the original bad data values.

These points were eliminated from further processing. The remaining data were interpolated to nominal alpha and beta values. Processing was completed with the release of a magnetic tape containing the final interpolated pressure coefficients.

This report contains plots and tabular listings for both force and pressure data. Plotted force data illustrates lateral-directional, longitudinal and hinge moment characteristics of the configuration tested. Plotted pressure data illustrates the effect of several control deflections and attitude changes on local pressure distributions. The multiple volume appendix contains a tabulated listing of the basic force and pressure data. Listing of the interpolated base area coefficients is also included. The plotted and tabulated data are arranged in the following manner:

NO.	CONTENTS
1	Force data plots showing lateral-directional
	longitudinal and hinge moment characteristics.
2	Plots illustrating the effect of control surface
	deflections on fuselage, wing and vertical tail
	pressure distributions.

DATA REDUCTION (Concluded)

VOLUME NO.	CONTENTS
3	Tabulated Force Data
	Dataset Data type
	RE80\$\$ source balance coefficients
	RE8X\$\$ source hinge moment coefficients
	RE8Y\$\$ source base pressure coefficients
	KE80\$\$ interpolated balance coefficients adjusted for cavity pressure and forebody coefficients
	EE8D\$\$ interpolated base and cavity area FE8D\$\$ coefficients
	GE8D\$\$ interpolated vertical tail base area coefficients

Tabulated Pressure Data

	Component	Fourth Character*	Page
4, 5	orbiter fuselage	В	1
6,7,8	lower wing	L	1271
9,10,11	upper wing	U	3147
12 12	upper body flap lower body flap	F G	5405 5774
13 13	speed brake vertical tail	K V	6143 6547

^{*} The fourth character in each dataset identifier (i.e., XE8BXX, B for Fusclage) represents the individual component.

REFERENCES

- 1. SD75-SH-0106, "Pretest Information for OA148 of the 0.03-Scale 47-0 Pressure Loads Space Shuttle Model in the 11 x 11 Foot Leg of the NASA/ARC Unitary Plan Wind Tunnel," April 18, 1975.
- 2. MG-75-07-11, Rockwell International Corporation Internal Letter: "Model design Dimensional Varification Task 36: Elevon Deflection Angle Check of the 0.03-Scale SSV Model 47-0 (140A/B Configuration)". SAS/WT0/75-283, July 29, 1975.

TEST : CA148			DATE : May 1975
	TEST CON	IDITIONS	
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	4.57×10^{6}	1.166	120
0.90	3.4L x 10 ⁶	4.166	120
1.10	3.05 x 10 ⁶	4.166	120
1.25	2.86 x 10 ⁶	4.166	
1.40	2.74 x 10 ⁶	4.366	
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BALANCE UTILIZED: _	ARC Task MK XX	Α	
NF SF AF	CAPACITY: 3000 1bf/gage 1500 1bf/gage 600 1bf 27.000 in-1bf	ACCURACY:	COEFFICIENT TOLERANCE:
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TABLE II.

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TABLE III MODEL DIMENSIONAL DATA

MODEL COMPONENT BODY - BOX	Anna des amples de la companya de la	AND THE PERSON ASSESSMENT AND THE PERSON ASSESSMENT AND THE PERSON ASSESSMENT
GENERAL DESCRIPTIONConfiguration_	140A/H orbitor fi	malaga
NOTE: Box is identical to Boy except w	ndorolde of fuve.	lago han boon.
refaired to accept Will.	- Andrew Grant Control of the Contro	one of the state o
MODEL SCALE: 0.030 MODEL	DRAWING: SS-AOO	147 <u>Rolomo 12</u>
DRAWING NUMBER - <u>V170-0001/3B, -0002</u> V170-0001/0A, -0001	<u>00, -000205, -00</u> 40B	<u>(089, 000145</u>
DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta. X_{O} =235) Length (IML: Fwd Sta X =238),	,1n. 1293.3 ,1n <u>1290.3</u>	38 . 799 <u>38.709</u>
Max Width ($\omega X_0 = 1528.3$), In.	264.0	7.930
Max Depth ($\omega X_0 = 1464$), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft ²		
Max. Cross—Sectional	340.88	0.3068
Planform		
Wetted		
Basa		

TABLE III (Continued)

MODEL COMPONENT BODY -		
GENERAL DESCRIPTION: Configurat	Jon 140A/B orbit	or fundage with
11. A second sec		The second secon
MODISE OFFICE A CON-		वे क्यान्य व राज्याः । । । विभावताराम् क्याप्यव गायक्याः व राज्याः क्याप्यव व्यवस्थाः विभावता व
DRAWING NUMBER: V1.70-000140A, -000	140B, -000143B, . 89, -008501, -008	<u>-000145, -00020</u> 0 3502, -008296
DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta X_0 =235), Length (IML: Fwd Sta X_0 =238),	In. 1293.3 In. 1290.3	38.799 38.709
Max Width (ω X ₀ = 1528.3), In.	26/4.0	_7.920
Max Depth ($\omega X_0 = 1464$), In.		_7.500
Fineness Ratio	0.264	_0.261
Area - Ft ²		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE III (Contid)

MODEL COMPONENT : CANORY - C				
GENERAL DESCRIPTION . Configuration 3A. Canopy used with functage				
MODEL SCALE: 0.030 MODEL DWG:	88-A00347, Re	lease 12		
DRAWING NUMBER: VI/70-000143A	The second state of the second state of the second	Martin S to Administration 44, 1964,		
DIMENSIONS :	FULL SCALE	MODEL SCALE		
Length (X ₀ =434.643 to 578), In.	143.357	4.301		
Max Width (@ $X_0 = 513.127$), In.	152.412	4.572		
Max Depth ($\omega X_0 = 485.0$), 1n.	25.00	0.750		
Fineness Ratio				
Area				
Max. Cross-Sectional				
Planform				
Wetted		-		
Base		***		

TABLE III (Cent'd)

MODEL COMPONENT FIRMON - E.		
Flinpor doors contembody pieces, as (Data are for one of two sides.)	3. papu machined in id tilpppain are not	nto k
MODEL SCALE: 0.030	. H. C.A. (1788-18) Med (22 (23), 18/1/19) (18/1/19)	
DRAWING NUMBER	Andreas and a second se	ALL ALL
DIME NSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	210.0	0.189
Span (equivalent) , In.	349.2	10.476
Inb'd equivalent chord, In.	118.0	3.54
Outh'd equivalent chord , In. Ratio movable surface chord total surface chord	55.19	1.656
At Inb'd equiv. chord	0.2096	0.2096
At Outh'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	- 10.056	10,056
Hingeline (Product of Area & c	0.0	0.0
KONTONIO (KONTONIO KANTONIO KA	t ³ 1587.25	0.04.29
Mean Aerodynamic Chord. In.	90.7	2.721

TABLE III (Cont'd)

MODEL COMPONENT : BODY FLAP - I	F9	
GENERAL DESCRIPTION : Configura		•
	-	unanga anu gay amun gay . m () () () () () (() () () () (
	#ED 2/1 44400 P + 100 4 10 10 10 10 10 10 10 10 10 10 10 10 10	
MODEL SCALE: 0.030		
DRAWING NUMBER : VI.70-000140B, -	-000200	
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (Chord), In.	84.7	2.541
Max Width , In.	262.308	7.869
Max Depth, In.	23.00	0.690
Fineness Ratio		
Area - Ft ²		
Max. Cross-Sectional		
Planform	142.60	0.128
Wetted		
Base	41.90	0.0377

TABLE III (Cont'd)

MODEL COMPONENT : OMS POD - M34		
GENERAL DESCRIPTION : Configuration	1400 orbiter OMS	pod - short pod
External contour is to referenced draw	vinco with 1/2" a	dded to simulate
Tho.		
MODEL SCALE: 0.015		
DRAWING NUMBER :	lo	
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0 = 1310.5$)),1n <u>. 258.50</u>	7.755
Max Width ($@X_0 = 1511$), In.	136.8	4.104
Max Depth (@ $X_0 = 1511$), In.	74.70	2.241
Fineness Ratio	2.484	2.484
Area - Ft ²		
Max. Cross—Sectional	58.865	0.053
Planform		
Wetted		
Base		

MODEL COMPO	OMS DNENT: K#X NO.72I	Table III (Cont'd)			
GEWERAL DE	GENERAL DESCRIPTION: Configuration LAOA/R orbitor OMS nozzles.					
	0.030					
DIMENSIONS:		OTAUA (LOCATIO	n), SS-A00106, Releas			
		•	FULL SCALE	MODEL SCALE		
MACH NO	•					
Length Gim Thr	- In. bal Point to Exi out to Exit Plan	t Plane ne				
Di mae te						
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Inl	et					
Area - Exi Thre	t					
Gimbal :	Point (Station) Nozzle	· In.	et de velocità que de la Arteriorie			
	^X O		1518.0	45.54		
	Y ₀ Z ₀		<u>- 88.0</u> 492.	<u>- 2.64</u> - 14.76		
Right	Nozzles					
	<u> </u>		1518.0 88.0	45.54		
	20		492.0	2.64 14.76		
	sition - Deg.					
Left	Nozzle Pitch		160/01	• • • • • •		
	Yaw		15%491	15°49! 12°17!		
Right	Nozzte					
	Pitch Yuw		15%91	15°49' 12°17'		

TABLE III (Contid)

MODEL COMPONENT RUDDER - R		
GENERAL DESCRIPTION Configuration	1400 orbitor rud	der (identical to
configuration 140A/R rudder).		
MODEL SCALE: 0.030		
DRAWING NUMBER	095	
DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	100.15	0.090
Span (equivalent), In.	201.00	6.030
Inb'd equivalent chord, In.	91.585	2.748
Outb'd equivalent chord, In.	50.833	1.525
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
(Product of area & ट) Area Moment अ अव्ययक्तां कार्यक्रां कार्यक्रां कर्मां कर	Ft ³ 610.92	0.0165
Mean Aerodynamic Chord, In.	73.2	2.196

TABLE III (Cont'd)

MODEL COMPONENT: VERTICAL - V8		
GENERAL DESCRIPTION: Configuration 140C orbi		
(Identical to configuration 140A/R vertical to		and an enter a common
MODEL SCALE: 0.030 DRAWING NUMBER: V170-000140C000146B	, nin-assama - emissins - simble sidente - electro de pere	
DIMENSIONS:	FULL MOALE	MODEL GC/LE
TOTAL DATA		
Planform Span (Theo) - In. Aspect Ratio Rate of Taper Taper Ratio Sweep-Back Angles, Degrees. Leading Edge Trailing Edge O.25 Element Line Chords: Root (Theo) WP Tip (Theo) WP M/C Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC	413.253 315.72 1.675 0.507 0.404 45.000 26.25 41.13 268.50 108.47 199.81 1463.35 635.52 0.0	0.372 9.472 1.675 0.507 0.404 45.000 26.25 41.13 8.055 3.254 5.994 43.901 19.066 0.0
Airfoil Section Leading Wedge Angle - Deg. Trailing Wedge Angle - Deg. Leading Edge Radius	10.0 14.92 2.0	10.0 14.92 0.060
Void Area	13.17	0.0019
Blanke ted Area	0.0	0.0

TABLE III (Conlid)

NERAL DESCRIPTION: Configuration 4		
OTE: Identical to War, except airfoil thickness.	Diho iral angle	is along
traiting edge of wing.		
MODEL SCALE: 0.030		
EST_NO.	DWG. NO. VIA	0-000140A, -000
IMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA Area (Theo.) Ft ² Planform Span (Theo In. Aspect Ratio Rate of Taper	2690.00 936.68 2.265 1.177	2.421 28.10 2.265 1.177
Taper Ratio Dihedral Angle, degrees Incldence Angle, degrees Aerodynamic Twist, degrees Sweep Back Angles, degrees Leading Edge	0.200 3.500 0.500 45.000 - 10.056	0.200 3.500 0.500 45.000 - 10.056
Trailing Edge 0.25 Element Line Chords: Root (Theo) B.P.O.O. Tip, (Theo) B.P. MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC	35.209 689.24 137.85 474.81 1136.83 290.58 182.13	20.677 4.136 14.244 34.105 8.717
EXPOSED DATA Area (Theo) Ft ² Span. (Theo) In. BP108 Aspect Ratio Taper Ratio Chords	1751.50 720.68 2.059 0.245	1.576 21.620 2.059 0.245
Root BP108 Tip 1.00 b MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC Airfoil Section (Rockwell Mod NASA)	562.09 137.85 392.83 1185.98 295.30 251.77	16.863 4.136 11.785 35.579 8.829 7.555
XXXX-64 Root b = Tip b =	0.113	0.113
Data for (1) of (2) Sides Londing Edge Cuff Transform Arma Ft2 Londing Edge Intersects Fus M. L. @ Sta Londing Edge Intersects Wing @ Sta	113.18 20.20.0	0.102 15.0 30.720

FUSELAGE FRESSURE TAP LOCATIONS -

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TABLE IV. - Concluded.

FUSELAGE PRESSURE IN LOCATIONS

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TABLE V. - Concluded.

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TABLE VI.

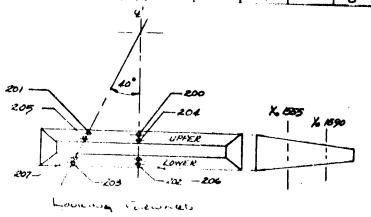
ORBITER VERTICAL TAIL & SIFEO BRAKE PRESSURE TAF LOCATIONS

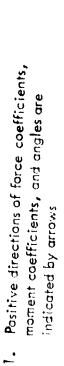
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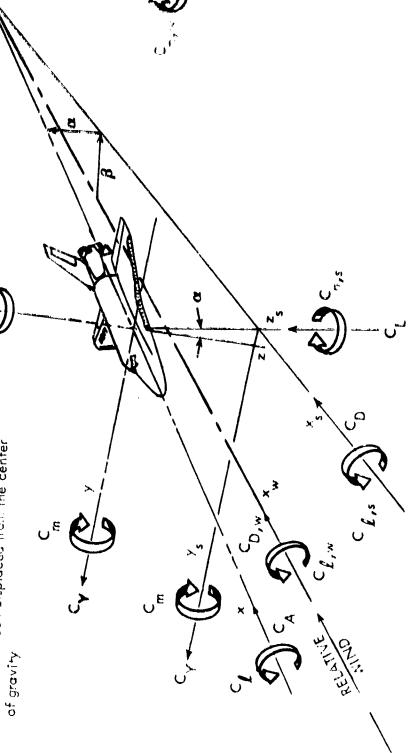
BOOVELAP PREGSURE TAP LOCATIONS

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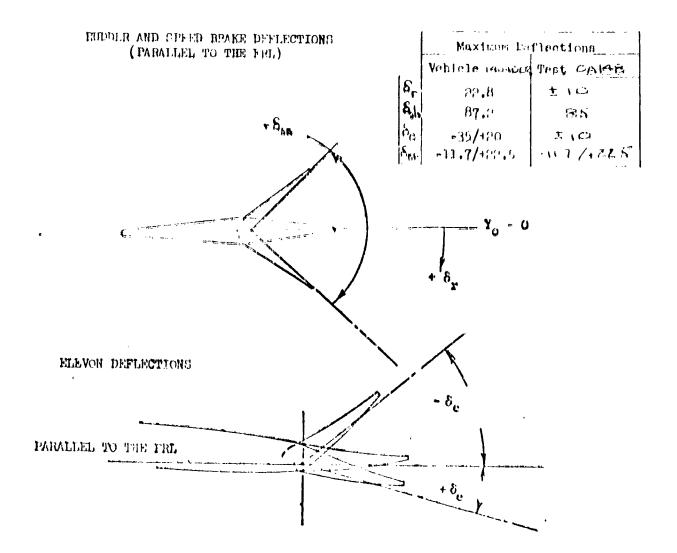
2. For clarity, origins of wind and stability
axes have been displaced from the center
of gravity



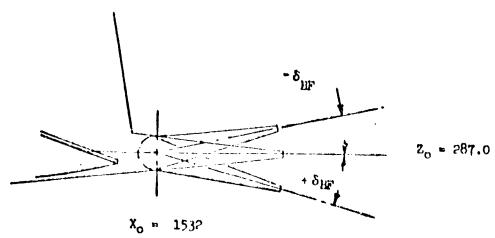
NX

a. Orbiter Axis Systems

Figure 1. - Axis systems and sign conventions

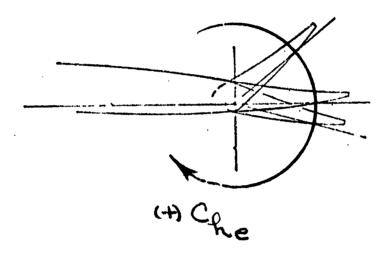


BODY FLAP DEFLECTIONS



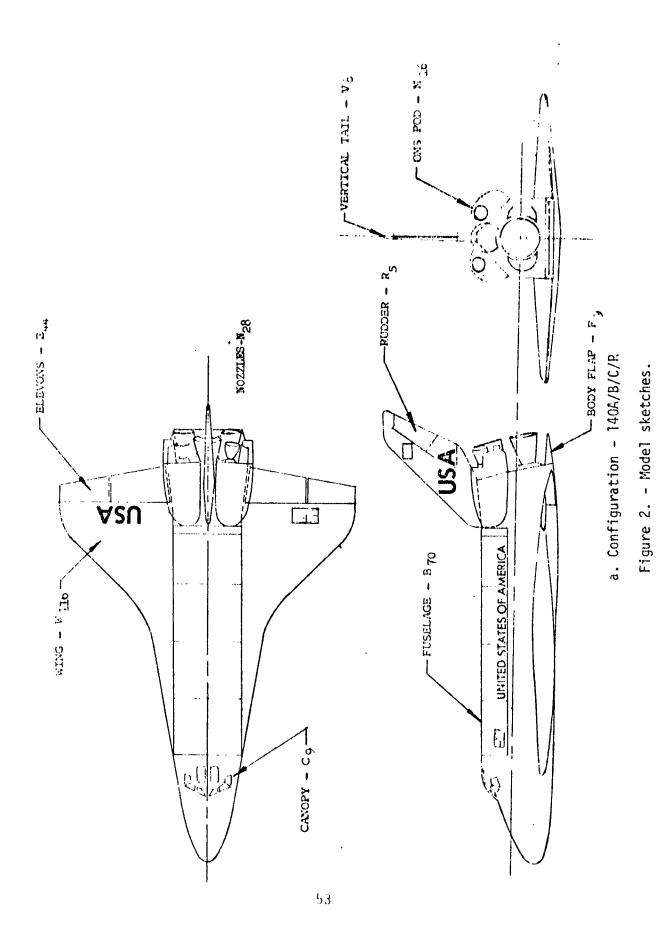
b. Definition of Angular Measurements

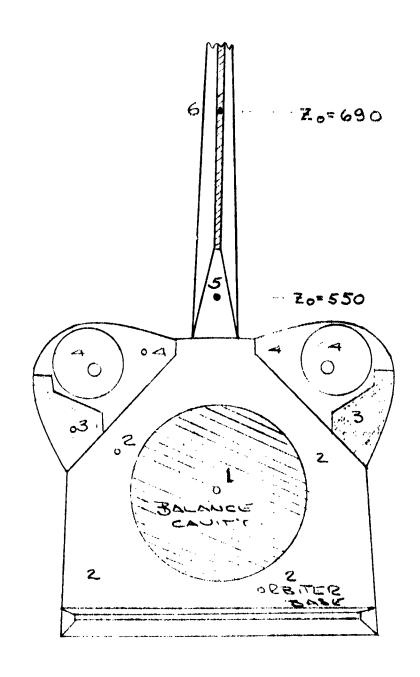
Figure 1. - Continued.



c. Elevon Hinge Moment Sign Convention

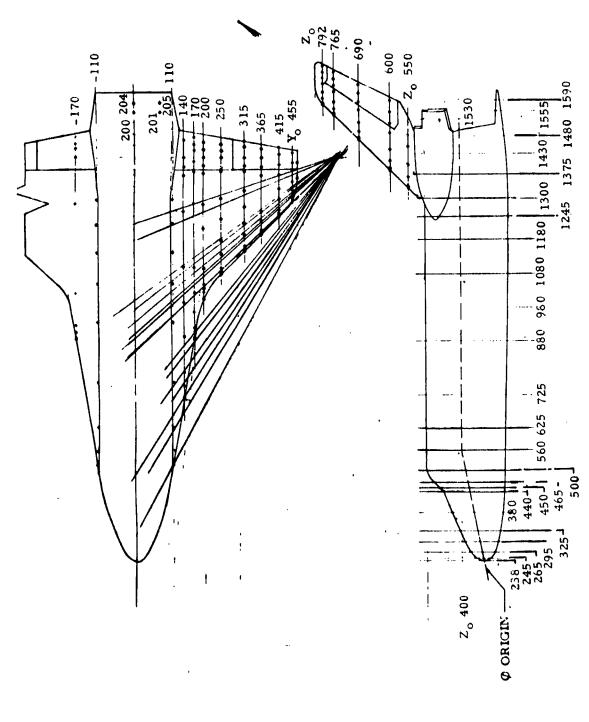
Figure 1. - Concluded.



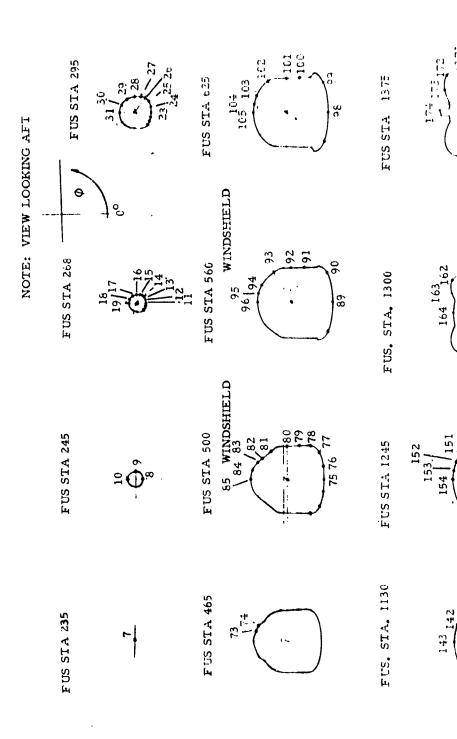


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b. Base Pressure Taps and AreasFigure 2. - Continued.

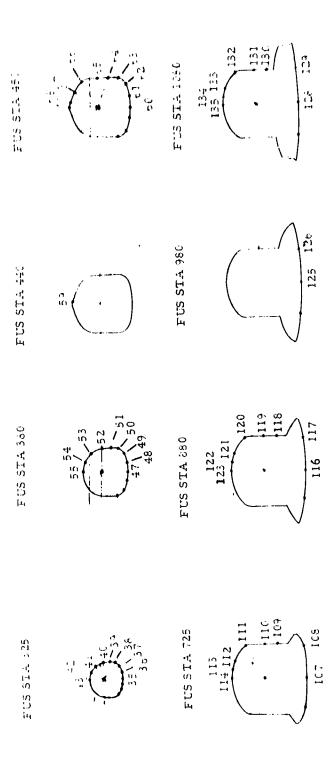


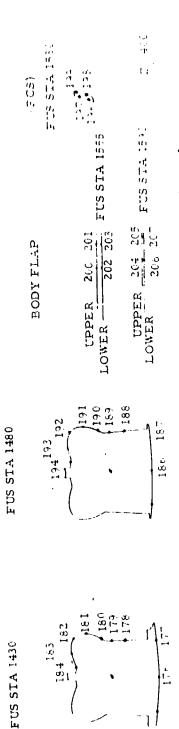
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 2. - Continued.



c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations . Figure 2. - Continued.

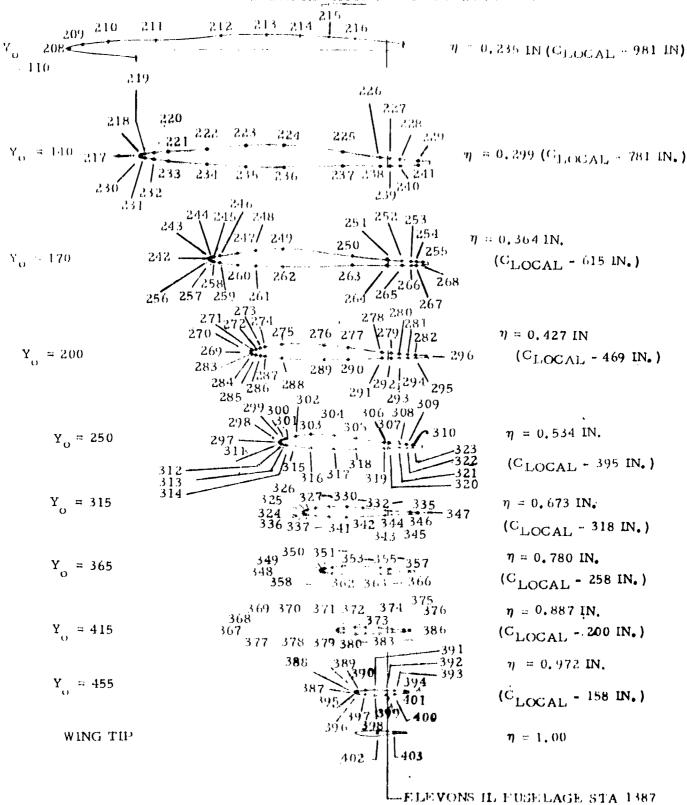
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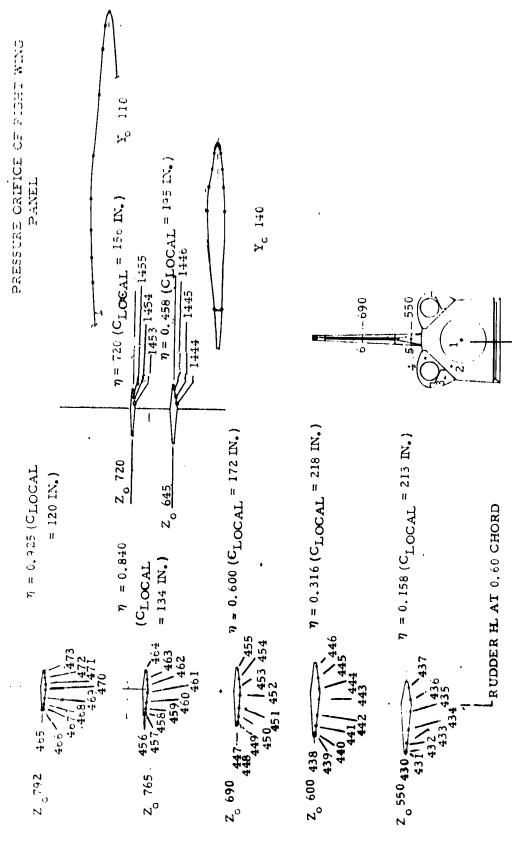


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 2. - Continued.

PRESSURE ORIFICE LOCATION OF LEFT WING PANEL



c. Tuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 7. Continued.



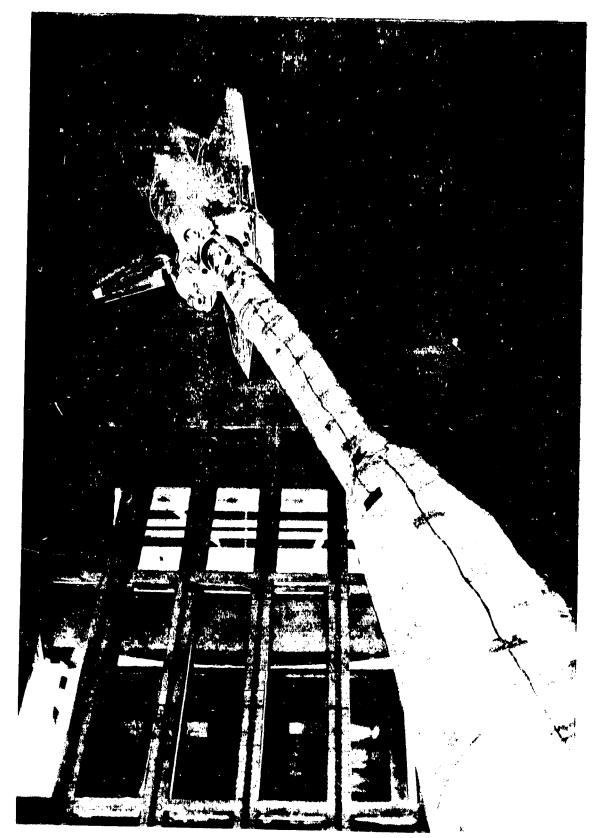
Fuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 2. - Concluded.

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BALANCE CAVITY



a. Three Quarter Front View of model 47-0 in the ARC 11 x 11 UPWT Figure 3. - Model installation photographs.



b. Three Quarter Rear View of Model 47-0 in the ARC 11 x 11 UFWI Figure 3. - Concluded.

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APPENDIX

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3	TABULATED FORCE DATA	1-723
	TABULATED PRESSURE DATA	
	COMPONENT	
4, 5	Orbiter fuselage	1-1270
6, 7, 8 (No	ote) Lower wing	1271-3146
9, 10, 11 (No	ote) Upper wing	3197- 5404
12 12	Upper body flap Lower body flap	5405-5773 5774-6142
13 13	Speed brake Vertical tail	6143-6546 6547-7114
were actual	iated at 2Y/BW = .673, X/CW = .775, .89 ally located at 2Y/BW = .641, X/CW = .7 shown in Table V on page 47.	50, .950 & 1.00 775, .850, .950

TABULATED PRESSURE DATA - OATH8 (AMES 11-073-1)

AMES 11-073(0A148) -1404/8/C/R 038 FUSELAGE

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AMES 11-073(CA148) -140A/B/C/R ORB FUSELAGE -3.908 BETA (!) -.375 Ħ

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AMES 11-073(0A148) -140A/B/C/R 0AB FUSELAGE TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) BETA (2) 5 αì

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37.0 .0149 朝日 57.40 2.903B -.1119 -.0960 -.1118 PAGE 0784. -.1200 -.1501 -.1841 .0211 -.070B 0764. -. 0605 .0148 -. 5505 -.0152 FN Ž -. 1026 -. 1500 -. 2059 .0536 .37BD 0423 -.1916 .0357 -.1785 .3780 .0536 型. (XEBBD1) 11.15 -.1067 .3010 0323 -.1626 -.2315 -.4274 0440 -.2956 -.2178 -. 2595 .3010 .0334 .0224 -.1810 -.1898 -.1939 .2510 .0227 -. 2235 -. 2434 -. 2752 .0641 -.3643 -.4057 .0510 -. 3997 . 5130 ۵. .0005 .0003 .0003 .115 .115 .0005 .2040 .3015 .1542 .0830 .0146 .0015 .0656 .0301 -.2470 -. 3883 1.0460 .2040 ö 600.01 600. AMES 11-073(0A148) -140A/B/C/P ORB FUSELAGE .:770 .6171 .6888 1.0180 3261 1770 .0468 .0756 .1187 .1249 .2018 .9990 -.2879 . 1660 8338 9354 0343 0343 0512 0576 0659 1481 .1550 O ø -.1528 -.1519 -.1115 -.1680 1.3940 .9356 . 1580 .9600 -. 2591 -. 1277 -. 0657 -. 2962 .1580 4.205 MACH = 1.3940 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0470 -.0470 -.1155 -.1254 -.1821 -.0866 .0031 .1120 .0823 .1079 .1375 .1475 .2426 .2759 .9210 .1120 0717 0755 0692 0709 0576 1730 .2671 .145 MACH -.0291 -.0380 -.0558 -.1218 -.0353 .0305 .0853 .0700 .1524 .1653 .2145 .2677 .2568 .2413 8343 .2642 .8790 .0700 1512 1438 1662 1871 1581 1571 2695 2939 2939 3381 3376 3564 .0370 .0411 -.0431 .0329 .0450 , 404. .8210 2390 2409 2490 2380 2380 25577 3378 .0460 ົດ BETA (3) .0674 .0725 -.2036 -.1233 .0230 4400 4557 5531 5931 5982 5988 5988 5958 5958 5345 494 .7790 .1830 .1938 .2022 .2122 .2115. .0230 BETA CORBITER FUSELAGE 110FBITEP FUSELAGE .0383 -.1792 .9203 .7290 .7331 .0572 ナナナ -.0012 . acea 5833 -.0438 .9063 -.0337 3.926 3.827 .0539 -.0539 -.0578 -.0528 -.0207 -.0252 -.0229 :.478B .6520 1.4633 1.4728 -.0235 H-4-8 ALPHA (B) 101.035 ď

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TABJUATED PRESSURE DATA - OAI48 (AMES II-073-1)

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TABULATED PRESSURE DATA - CAIMB (AMES 11-073-1)

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AMES 11-073(04148) -140A/8/0/R 038 FUSELASE BETA (3) ■

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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11-073(04148)	MACH =	ENT VARIABLE	.1120	•	•	.2238	.5711		.6129	.9210		2002		1218	20010.	.1165	MACH	IT VARIABLE	.1120	0472	0351 .0157	.0886 .1212 .3384	
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TABULATED PRESSURE DATA - DAIMB : AMES 11-073-1)

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AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

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		.0460	.5673		.6170	.8210	1'87 1045 -2872 -2719	.0329 .4089 .4297	-3.	-	0940.		. 2331	.4763 .4763 .5421	.5364	
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AMES :1-073(0A148) -140A/B/C/R ORB FUSELAGE -3.909 BETA (1) = -.037 ALPHA (2)

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

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	DEPENDE	.8790	.0200 0202 0964	0745	.0092 .0773	. 2938	.211	DEPENDENT	.0700		.0786	.0982	.1346 .2346	.3283		. 3943	.8790	+	
:		.8210	.1607 .1267 541:.	176	.3555	.4815	t "		.0460		.1399	1441	.2579 .2579 .3717	4709		.5056	.8210	0438 0289 -1552	1080 3163 3401
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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(0A:48) -146A/8/C/R ORB FUSELAGE

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TABULATED PRESSURE DATA - GAIMB (.MES 11-073-1

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FUSELAGE -1404/B/C/R 048 AMES 11-07310A1481

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PPESSURE DATA - CAIMB (AMES (1-073-1) TABULATED

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				AMES	AMES 11-073(0A148)		-140A/B/C/R ORB FUSELAGE	/R ONB F	FUSELAGE	٠		(XE8803)	183)		
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174.000	1.339.7	.8422	.6173	.5156	.4437	5065	. 9862	.807t		5634	6273	2803	5755	0222	
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.×970 -. 0360 -. 0360 -.0957 -.0357 .3780 -. 0914 -.2108 -.1715 -.1732 -.1007 -.2609 -. 2802 .3010 ₹,0966 -. 1352 -.3952 -.3777 -.6703 -. 3023 .3351 -.0440 .035 -.0914 -.4888 -.4986 -.4861 .. 5979 -.6212 .2040 .0832 .0706 .0706 .0706 .0832 .2192 .2602 .4636 -.5096 170 .¥31 .1660 0286 0286 0302 0349 0491 0544 6587 . 780B .796¥. 1.0988 .1580 DEPENDENT VARIABLE CP .1120 .0269 .0638 .1063 .1468 .1634 .3135 4304 MACH .0700 .0445 .0383 .0635 .1719 .1718 .1513 4.209 .0460 1504 1475 1480 1988 1988 2532 3700 4781 . 0230 3355 3355 3355 3355 1474 1575 1555 5776 1) ORBITER FUSELAGE .0080 .6783 5745 .0000 1.3231 ALPHA (2) SECTION 20.000 55.000 70.000 70.000 120.000 150.000 151.000 165.000 165.000 180.000 X/LB

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 4.209 BETA (3) -.029 DATE 10 FE ALPHA (2)

DEPENDENT VARIABLE CP

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		.1860	.6929	0866	3968 2938		a		. 1660	1392	86.3 8.3	1518	1189.	£	.7268	0636	
	BLE CP	.1580	• .	.9600	- 2148 - 2539 - 0937 - 1444 - 2090 - 2174	2286	1.0976	RE CP	. 1580						1010-	.9600	1993
	DEPENDENT VARIABLE	.1120	.3619	.9210	1160 0518 0543 1878 1876 2198	1388 0605	MACH	IT VARIABLE	.1120	a de la companya de l	8500 8700 8700 8700 8700 8700 8700 8700	3321	.359		.3789	.9210	1077
968	DEPENDE	.0700	.224	.8790	0104 0502 0159 0159 186 2152	0868 .1420	. 14t M	DEPENDENT	0070	7267	18.00 17.00 17.00	2235 2235	<u>v</u> .		.2379	.8790	0059
-3	•	.0460	.2836	.8210	.0924 .01106 .0254 .0118 .0715 .1051	.±084.			.0460	3469	37.12	600 600 600 600 600 600 600 600 600 600	327		.2936	.8210	.1158
BETA (1	AGE	. 0230	.3617	.7790	2002 2230 2230 - 3962 - 6945 - 0073 - 1612	2835. 2835. 375.	BETA (2)	H H	.6233	.505+ 0.107+	5773	5387 5207 -	£1.4.		.3853	.7790	.201.
988.	ER FUSEL	.0080	.5719	.7290	. 1901	0588	7.886 86	DORBITER FUSELAGE	.0630	.9429		.6329			.5622	.7290	.ev78
	1.08817	0000	1.2901	.6520	.2463 .2501 0985 0707	0080 .0+31 .0627	- 7.1	11099111	.6030	1.2919					1.29.9	.6520	.2321
S MAN	SECTION (1) ORBITER FUSELAGE	K/LB	PH1 180.000	K/LB	PHI .000 70.000 90.000 105.000 135.000	150.000 165.000 180.000	LPHA (4)	SECTION (מר9	PH	55.000	70.000 90.000 120.000	150.000	162,000 155,000 169,000	174.000	71.6	Pixi .000 %0.000

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TABILATED PRESSURE DATA - DAING (AMES 11-073-1)	
DATE 10 FEB 76	

							3.1859		Ę.	.01	.005									•		
							•		.4970	2500.	0403	1785	0992	0489	1.6.1		0653					
9							PR/L		.3780	.0355	0120	.213		0861	2030		2261					
(XEBB03)							710.48		.3010	.0222	0223	2815		- 4465	#16E-		4047					
		٠					•		<u>8</u>	.0623	.0139	707		rrer	6179		6470					
			1.0460				599.10		.2040	1078	.0697 .0695		1832	605# 605#	-,6114		7256	1.0460	.2833	•		
USELAGE			1.0180				- 598		0771.						1 m			1.0180	1517			
/R ORB F			3666.	¥	3390		ø		. 1660	1357		. 1035 C 1035	2758	.6161		.7100	.7198	0666.				
140A/B/C		LE CP	.9600	1501 1721 2824	3135 2986 2835	1/01/1	1.0976	LE CP	.1580							į		.9600	2114	2431 3153 4072	5199	3789 3848
OA148) -		DEPENDENT VARIABLE	.9210	1234 1748 2576	3254 2629 2184	0001	MACH .	IT VARIABLE	.1120		855 155 155 155 155 155 155 155 155 155	1633	2908	.3332			.3651	.9210	.1167	2555	402	3576
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	1441.	DEPENDEN	.8790	0791 1743 2439	2706) (2)	.200 m	DEPENDENT	.076	1019	2032	1325 1325 1326	1348	. 1961			.2266	.8790	0193	1558 2314	£.	2658
APES			.8210	.0512 .0514 .0627	.3408 .3408 .5261	. 5655	•		.0460	3499	3118	2306.	7.55	.2955			.3086	.8210	.0856		0632	. 3826 . 3826
	BETA (2)	ige.	.7790	398v 1967 .036:	. 1579 . 2224	29.28 29.28	BETA (3)	ig.	.0230	1937	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	6 15 3.	.4061	.3799			3770	.7790	1958	3347 1888 1888	101	.2807 .2807
	7.886 88	1) ORBITER FUSELAGE	.7290	3319	1098	0039	7.886 86	1) OREITER FUSELAGE	.0080	1931			. 185			•	.5398	.7290	18	3146	0807	.0013
	- 7.8	1.00RB1TE	.6520	1141	0370	.0763	. 7.8	1) OREITE	.0000	1.2829							1.2829	.6520	.2467	. 033*	62.5	.0926
	ALPHA (4)	SECTION (W/LB	PH1 70.000 90.000 105.000	120.060 135.000 150.000	180.000	ALPHA (4)	SECTION (X/:B	PH1 .000		85.5 5.69 5.69	120.000	150.000	25.55 26.56 26.56 26.56	169.000	180.000	X/LB	000.	90.00 96.000	110.000	135.900

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.PHA (4)	- 7.1	7.886 98	9ETA (3)	•	4.200					•					
SECTION (1104817	HOPBITER FUSELAGE	1 8		DEPENDE	DEPENDENT VARIABLE	NE CP								
7B	.6520	.7290	.7730	.8210	.8790	.8210	0096	3886	1.0180	1.0460				. •	
PH1 165.000 180.000	.0902 .0618	0027	.2626 .2371	.4709	.0145	2608	4600								
LPHA (5)	11.990		BETA (1)	£	-3.881 M	MACH =	1.0978	0	366	599.38	•	710.48	FAVA	•	3.1858
SECTION (1) ORBITE	1) ORBITER FUSELAGE	10E		DEPENDE	DEPENDENT VARIABLE	X.E. CP								,
/L9	.0000	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	£67.	5750
1 .	1.2323	1.0549	44.63	\$00 m	3271			.2000		. 1862	.1299	. 100r	ķ:	.0523	.2068
20.000 40.000			-089 -047 -047	4164.	13511	188. 178.		.2081 584%		. 1881 . 2068	1386	.1193	.1400	.0965	.23.52
55.000			6979	4900	3792	.2803		.2116		1716			_		
70.000		7017	.6270 6270		.3055	567 576 576		. 2238 2438		1532		1981			
120.000			4378	287. 287.	1799	2886		3932		0159	¥91	5195		- 3523	
140.000 150.000			.3064	1715.	.1216	.3027		.7478		0880 2175	7853	6839	- 2885	1364	
151.000 162.000 165.000									. 1502 1502 1503 1503	6572	7357	- 5496	- 2465	1036	
169.000							8300	.7532							
180.000	1.2323	.4122	.2340	. 1963	.1264	.3093	6600	.6575		7515	69+1	-,4292	- 1928	0555	
1B	.6520	.7290	.7790	.8210	.8790	.92	.9600	0666.	1.0.80	1.0460					
			Š	3	50	6698	100		4003	1012					
£0.00	3500		1995	1822	.0166	0198	2073		3693	1696					
	1378	. 3857 . 2857	.3992	0567 0210	0846 0992	2196 2045	3315								
10.000			0651	9	7			4267							
120.000 135.000	1779	2012	9499 6649	2805 2806 306	1947	- 269 - 269 - 269	. 90 20 20 20 20 20 20 20 20 20 20 20 20 20	. 3859							
	0569. 0423	1739	387	¥20¥.	. 1365	2023 1084	3033 4518								
	. 0769	0466	.2058	£13.											

7		3.1856		.5740	. 2022						3.1656	0.25	.1639
PAGE				0.79√.	.0573 .0573	2119	1039	0425			•	0254	.0910 .0291 .3598 .488
	303)	B RW/I.		.3780	2028	6939	1983	1852			RNA	0	
	(XEBB03)	= 710.48		.3010	.2083	5703 5703	5960	4159			710.48		. 1063 . 1063 . 1063 . 1063 . 1063 . 1063
		<u>.</u>		.2510	.0967	1.3041	7849	7423			•	- 9	
		599.38		.2040	7591. 1757. 10169		8466	7708	1.0460	85. 1689 1	599.38	280	1736 1153 1153 0748 0626 -0117
	FUSELAGE	- 29		. 1770			.3989		1.0180	.3719	- 296	0771	
11-073-	C/R 0RB	o		. 1660	3. 2.03. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	3513	5635. 5983.	.6861	3666.	4500 3883	0	1660	1998 1784 1603 0716 1384 2966
- 0A148 (AMES 11-073-1	-140A/B/C/R ORB	1.0978	BLE CP	. 1580			e a	9	.9600	. 1456 - 1916 - 1916 - 2339 - 3735 - 3735 - 3319 - 4581	1.0978	LE CP . 1580	
		MACH **	NT VARIABLE	.1120	. 2616 . 2616 . 1889	. 2885 . 2885		. 3232	.9210	0500 0152 2238 3392 3392 3131 3131	MACH .	IT VARIABLE	. 2050 . 1835 . 1936 . 1934 . 2694
PRESSURE DATA	AMES 11-073(0A148)	H 641.	DEPENDENT	.0700	3319 3319 3448 7505	1872	1031	. 1248	.8790	.0548 .0274 1732 1576 4182 3146 2337 1849	.212 M	DEPENDENT	3195 2931 2709 1588 1096 1095 1095
_	APE	- (2	•	.0460	. 4566 . 4682 . 4501 . 3755	.2361	ଅ ଅ ଅ	.2017	.8210			39+0	
TABULATED		BETA (2	AGE	.0230	.6397 6476 5173 5752 5708:	\$05. \$07.	Ę.	.2582	.7790	8575. 8185. 828. 8281. 828. 831. 831. 831. 831. 831. 831.	BETA (3)	1GE . 0230	6286 5886 5846 1086 1086 5158
		11.997	ER FUSELAGE	.0080	1.0607			-4012	.7290	.3286 4241 3131 1358 0970	. 992 BB	1) ORBITER FUSELAGE.	1.0423
8 76 5			1) ORBITER	.0000	1.2403			1.2403	.6520	.3186 .3407 1301 0827 0437 0528		11.00001	1.2251
DATE 10 FEB 76		ALPHA (5)	SECTION (X/LB	74.05.00 20.000 20.000 20.000 20.000 20.000	1.0.000	150.000 162.000 165.000 165.000	180.000	X/LB	741 . 000 70.000 105.000 1105.000 135.000 165.000	ALPHA (5)	SECTION (PH1 20.000 20.000 25.000 70.000 120.000

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DATA	
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TABLLATED PRESSURE AMES 11- BETA (3) . 4,262	TABLLATED PRESSURE DATA - DAING (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE	4,212
	TABLLATED P		(A (3) e
	DATE 10 FEB 76		ALPHA (5) • 11.992

	0										
	57.0										
	5	0607	0458	0605							
	.5780	. 193	1762	20%							
	3010	0.00	4241	4410		•					
	2510	7840	7057	6978							
	.20%	2986 5999	65%5	7706	1.0460	.3178	e e				
	.1770	.3121	SP.		1.0180	5267	5				
	.1660	9068.	1119.	.6814	.9990			AC07	4831		
BLE CP	.1580			.7531	.9600	1666	.2890	3893	6038	4178	2.00
DEPENDENT VARIABLE CP	.1120	.2906		.3087	.9210	.0588	. 2005. - 2005.	4116	5159	3361	
OEPENDE	.0700	.0751		.1230	.8790	0.440. 12.440.	2332	5467	3899	2020	
	.0460	.2043		1425.	.8210	1489	1473	0796	0818		.5786
À	.0230	.2667		.2535	.7790	2613	1.4727	1295	1415	.2222	1875
TH FUSEL	.0080			.3720	.7290	.3222	4243	,	1121	0391	-, 0446
1.000	.0000			1.2251	.6520	.3120	1142 0505		. 0359	. 0949 849	88
SECTION (1) ORBITER FUSELAGE	C/LB	PHI 140.000 150.000	165.000 169.000	174.000 183.000	/LB	PH1 .000 .000	70.000 90.000	135.000 110.000	120.230	150.000	180.000

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)	_
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DATE 10 FEB 75		TABULATI	ED PRESS	SURE DATA	1 - 04146	TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1	11-073-1	_					PAGE	e E
			AMES	AMES 11-073(0A148)		-140A/B/C/R ORB FUSELAGE	7R ORB FI	JSELAGE			(XEB04)	-	05 AUG 7	t
REFER	REFERENCE DATA	2								7	PARAMETRIC	C DATA		
SREF = 2690.0000 LREF = 474.6.000 BREF = 956.0680 CAR F = 6730	SG. FT. IN. IN.	XPRS YPRS ZPRS	1076.6 375.0	.0000 IN. .0000 IN. .75.0000 IN.	828				584	RUDDER ** BOFLAP ** R-ELVN **	.000 .000 .000	SPOBRK L-ELVN HACH	***	8 8 8 8 8 8
	28	BETA (1)	.3.	-3.880 M	MACH -	.89913	ø	- 599.67		<u>.</u>	- 1059.7	FBV7	•	3.5733
SECTION (1) ORBITER FUSELAGE	R FUSELA			DEPENDENT	UT VARIABLE	RE CP				•				
X/LB .0000	.0080	.0230	.0460	.0700	.1120	. 1580	.1660	 67:	.2040	529.	3010	.3780	5 6	g-re-
PHI .000 1.1979	.3560		1416	2117			2241		2200	1716	0733	-033	.0050	0156
20.000 40.000		0508	1379	2386	2557 2557		2672 3601		. +3.5. 3.4.5.	3336	1311	- 3680	. 9 .0	9461
55.000 70.000 90.000	1361	.3382 .4646 .8562	.0898 .2193 .2093	00% 1.260 . 1.260	25.55 25.55 25.55 25.55				5.55 5.55 5.55 5.55 5.55 5.55 5.55 5.5	7196	0243	.0502 502 502	1107	
120.000		.6413	4584	.3331	3202		. 1627		2334	5795	1285	.0307	.0563	
150.000	,	.6427	.5043	.3960	.4158		.6571		2703	8598	0711	.0229	.0457	
151.900 162.000 165.000							2127.	3915	8373	7728	0245	.0152	.0383	
174-000 174-000 180-020	.8470	5846	.470B	3846	.4153	.8302	7130.		945F	7758	0121	9600.	.0328	
X/LB .6520	.7290	0611.	.8210	.8790	9810	.9600	0866	1.0180	1.0460					
	1876	.2401	1976.	\$.	1700	0118		2990	. 1045 FL					
90.000 . 0595 90.000 . 0571 105.000	0339	81.79 82.69 83.60 83.60 83.60	2563 2563		0122 0684 1187		į		?					
110.000 120.500 120.000 150.000 165.000 165.000 165.000	. 1326	. 2552 . 2550 . 2557 . 3559 . 3798	.3506 .4456 .4281	2725 1760 0847 .1166	1851 0965 0627 0359	1851 1398 1398								

DATE 10 FEB 76	3 JG		TABULATED		PRESSURE DATA		B (AMES	0A148 (AMES 11-073-1						PACE	Ž.
.;				AME	AMES 11-073(0A148)		-140A/B/C/R ORB	C/R ORB F	FUSELAGE			(XE880#)	1408		
ALPHA (1)	-4.047		BETA (3)		4.237										
SECTION (1) ORBITER FUSELAGE	18		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	0000	.0090	. 0230	.0460	.0700	.1120	. 1580	.1660	1770	.2040	.2510	.3010	.3780	67B*.	.5740
PHI 140.000 150.000			5140	.+050	¥687.	. 3022		er74.	.1073	8091	8584	0284	+,00	0246	
162.000 165.000 169.000								6352	.2181	8553	7353	0075	.0008	.0317	
174.000 180.000	1.1837	.8126	.5867	#89 *	.3821	. 4 1 4 2	.7581	.6596		9428	mm	0127	.0082	.0348	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PHI -000 -000 70.000 90.000	1287 1609 .0087	2003 0523 0056	2387 2217 .0008 .0541	3503 3362 .0531 .0594	- 4234 - 4234 - 2784 - 3669 - 5055	1745 2200 1535 2693 2645	0145 0346 1366 1950		. 1821 . 1821	.0959 0072					
135.000 135.000 150.000 165.000	.0599 .0530 .0530	.1085	.1534 .2570 .2828 .2885 .3106	. 3639 . 5197 . 5382	6443 4743 3386 1167	5902 4528 3890 3336	3161 2189 3034 3258	. 3268							
ALPHA (2)	025	25 25 35 35 35 35 35 35 35 35 35 35 35 35 35		£3	-3.907 M	MACH	.898 <i>2</i> 7		. 59	599.10	Q.	- 1060.7	PENAL 1		3.5698
SECTION (SECTION (1) ORBITER FUSELAGE	R FUSELA	8		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.0000	. 0080	.0230	.0460	.0700	.1120	. 1580	. 1660	1730	. 2040	Š	.3010	.3780	.4970	57.0
PHI .000	1.2133	.5227	6890	026	-1156	1		8191		1644	1790	0758	0235	.0238	.0220
* 000.04			2937		0716	1172		2218 2218		1.24.7. 1.00.1.	2893	0839	0347	.0053	1020
70.05 90.000 120.000		.7269	.5037 .5037 .5512	. 2652. . 3209	1678 1721 5485	1969 1971 2962		75.00 1810.			6573 6432 6049	0849 1310 2527	.0250 .0145 0619	.0599 .0523 .0089	
150.000			.5366	.4016	.2985	¥36		.6307	.3012	3669 3669	9902	2475	9710.	.010s	
162.000 165.000 169.000 174.000							.7826	.6767	17¥.	9133	8663	1234	.0143	9 60 0 •	

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		.5740				3.5698		5740	.029	.0450						
		.4970	.0055 5005	,		•		0764	- <u>1</u>	£110.	.0338	.0165	<u>\$</u>	.0165		
		.3780	.0121					.3780	0184	0127	.0045 .0071 .0119	.0229	.0195	.0219		
		.3010	. 0689			1080.7		.3010	0721	0627	0868 1212 2142	1798	0692	0606		
		93.0	8710			•		.2510	1934	2871	7329 7142 6859	9550	8633	8619		
		.2040	-1.0549	1.0467	. 0101. 8460.	599.10		.2040	1735				9262	9428	1.0460	. 1072 . 0165
		.1770	·	1.0180	. 1951 . 1951	8 6		.1770					2720		1.0180	.3206
		. 1660	.5886	0666.		0		.1680	1505	1885	1182 1060 .0930	.5521	.6481	.6282	0666.	
; ;	BLE CP	.1580		.9600	0109 0973 0496 1086 1635 1534 1534	.89827	ALE CP	.1580					£	69//-	.9600	0102
	DEPENDENT VARIABLE	.1120	.3303	.9210	1948 1988 0018 1165 1742 1289	MACH .	IT VARIABLE	.1120	5	- 1193	.0288 .0561	.3077		3462	.9210	1958 1933
-3.907	DEPENDE	.0700	. 2866	.8790	3578 - 3853 - 0474 - 1055 - 5115 - 3111 - 3111 - 1113 - 0585 - 1713	. 144 M	DEPENDENT	.0700			.0671 .0859 .1949	rara.		.2970	.8790	3538
1) = -3		.0460	.3628	.8210				.0460			. 1559 . 2008 . 3067	.3722		.3743	.8210	2670 2525
BETA (1	AGE	.0230	.4606	.7790	1511 1344 0021 .0703 .07561 .3167 .3167 .3167 .3167 .3167 .3167 .3167	BETA (2)	V GE	. 0230	.0792	33.26	.3£ +7 .4310 .4828	.4890		. 4765	. 7790	
025 B	ER FUSEL	.0080	.7181	.7290	0789 1337 0183 .0708	020 BI	ER FUSELAGE	.0080	.5261		.5748			.7086	.7290	0840
	1)08817	.0000	1.2133	.6520	0273 0905 1045 0648 0518 0047	•	1) ORBITER	.0000	1.2159					1.2159	.6520	0301 0687
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	87/X	PH1 180.000	X/LB	PHI - 000 - 70 - 000 - 90 - 000 - 105 - 000 - 135 - 000 - 150 - 000 - 150 - 000 - 150 - 000 - 150 - 000 - 150 - 000 - 150 - 000 - 165 - 000 - 165 - 000 - 165 - 000 - 160 - 000	ALPHA (2)	SECTION (X/LB	PH1 .000 .20.000	40.000 55.000	70.000 90.000 120.000	150.600	162.000 165.000 169.000 174.000	180.000	X/LB	PH1 . 000 40. 000

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	â									.3/80	0194	0020	.0063		.010.	0.000	2800.					
	(XE080#)			•						.3010	0798	0533	0898	Kr43	1227	0569	0554					
							:1	۵.		<u> </u>	1925	2865	7890 7969	7909	9761	8703	8839				, ,	
				1.0460			1	0		. 2040	: 793	- 2102	2808 3357 4953	5646 7578	-,9255	8888	-1.0558	1.0460	.0988			٠
_	SELAGE			1.0180				- 599.10		.1770						. 1819	•	1.0180	8783.			
1-073-1	R ORB FU			. 9990	g	- 2685		Q.		.1664	1677	1784 1863	1920 1851 1913	O20-	.4553		.6115	0866.		9	100 ·	
(AMES 1	40A/B/C/		E CP	.9600	0938 1408 1843	2413 2043 2043	-, 5006	.89827	E CP	. 1580							.7133	.9600	0102 0415	1469 1881 2129	2538	3660
- 0A148 (AMES 11-073-1	1- (8+1Y		VARIABL	.9210	0666 1333 1820	2730 2109 2225			YARIABLE	.1120		1488	0812	£			333	.9210	2003	1802 2616 3217	5085 5085	2 1 1
PRESSURE DATA	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	**1.	DEPENDENT VARIABLE	8790		4808 3364 2706		4.215 MACH	DEPENDENT	.0700	9141		0.470		5715.		2857	.8790	3730	3072 3917 5223	. 5252 . 5252	3924
			•	.8210	.0838 .1026 .1334	.2380 .3978 .4557	. 438S		_	.0460	217	0320	£03	. 80°.	3209		9452	.8210	2738 4036	0233	.3258	*
TABULATED		(S) Y	w	.7790	.0406	. 1830 .2471 .2705	98% 98% 98%	TA (3)	H	.0230			2605 2605 2605	3760	er54.		2	. T.	1521		.2166	8. 8.
		O BETA	FUSELAG	.7290	2007 1278	-,0029	.0842	?7 BETA	R FUSELA	.0000	į	*10C.		#085 #0			á	7290	0866	1885	0240	.0527
25	<u> </u>	920	1) ORBITER FUSELAGE	.6520	- 1190 -		.095 52 52	027	1) ORBITER FUSELAGE	0000		1.2015						6269.	5450-	04/8 1161 0687	0233	£03.
DATE 10 FEB		ALPHA (2) .	SECTION (1			110.000	165.000	ALPHA (2)	ے ق	X/LB	ī	.000 20.000	*0.000 55.000 70.000	90.000	150.000	151.000	165.000 169.000 17.000	180.050 X/18	. CO	40.088	120.066 120.000 135.000	150.000

DATE 10 FEB 76	EB 76		TABLLA	TED PRES	SURE DAT	A - 0A14	TABULATED PRESSURE DATA - DAIVB (AMES 11-073-1	11-073-						PAGE	8
				ME	VES 11-073(0A148)		-140A/B/C/R ORB	C/R 0RB I	FUSELAGE			(XEBB04)	ŝ		
ALPHA (2)		027 BB	BETA (3)		4.215				٠.						
SECTION	SECTION (1) ORBITER FUSELAGE	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	9880	1.0180	1.0460					
PH1 165.000 180.000	0036	.0752	.2538	+89+·	1774	4012	3822					•		•	•
ALPHA (3)	•	3.898	BETA (1)		-3.912 M	MACH .	.89833	G	. 386	598.89	2.	1060.2	. RN/L		3.570
SECTION (1) ORBITER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP				٠				
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	. 2510	.3010	.3780	.497ū	.5740
PH1 .000	1.2035	.6724	.2130	.0800	0155			0948		1047	- 1248	0683	₩900.	.0581	.08+
20.000 40.000			2593. -4.182	1117	0055 .0650	0698		1074 0936		- 1300	1584	0406	. 0202	.0599	.1079
25.08 26.08 26.08			5230	2960 2960	1884	. 1360 1360		00.0 0013		1881	5755	1457	0259	.0281	
120.000		. 0966	666	3279	. 2250	2004		.2078			615#	3192	. 0858	8239	
150.000			1714.	.2960	.2074	.2718		.6095	cric	- 4480	9615	4205	.0072	0202	
		•							3053	196	7886	4043	. H2EO.	0066	
. 74. 000 . 74. 000		Í	200	i di	9.00		.7469	פונים.	•	1400	CARO.	cesa .	Cut.7	2108	
X/IB	0269	0827	0002	0158	9291	9	0096	0866	1.0180	1.0460					
Ē												•			
000.03	9369	.0045	0722 	2022	. 2690 2690 2690	2163	0182 1165		94.96 7.47.7	. 1203					
70.00	2111	4351	1470	1277	0356	.0363	0427								
105.000			1020	1682	- 1829	1088	1456	4389					٠		
120.000	1840	1551	. 2232 2653	.1630	3191	1716	1501	2569	٠	•					
150.000	0805	.0076		1685		1316	1788		ij,						
180.000	. 065¥	.0107	1988	- ##W .	. 0000	<u> </u>	. 5635								

0 1		3.570		.5740	160	.108									•	A ATTOR	5		.0738	. 1083	
PAGE		•		078¥.	.0620	.0517	. 0033 . 0058 . 0058	. 0021	.0026	\$ 100.						•	,	. 46.04	8790	.0459	.0050 .0106 .070
	(*0£	EN/L		.3780	9100.	0143	0427 0298 0240 -		.0351	.0303			•					1780	•	. 0083	0302 0097 .0188
	(XE8804)	1080.2		.3010	0583	0415	15:3	383+	2370	1702	· ·					1080.2		3010		0980	. 1679 . 1679 . 2932
		۵		8 .	1362	2045	6698 7323 7115	-1.0528	9563	9366		•					,	918	1333	2133	.7217 .7906 .729
		598.89		.2040	1031	- 1422	2076 3083	5182 8918	9915	-1.0311	1.0460		.1187 .3256		. '	598.89		.2040	168	664	. 4034 . 5218
_ _	FUSELAGE		. •	.1770				1878	81 81	•	1.0180		19761			86		97.1.			•••
11-073-		a		. 1660	. 0857	900	0738 0581	.5260	.6072	.5841	9880) -	, , , , , ,	3000 3000 3000		•	•	. 1660	. 0969	- 100 t	1341
- 0A148 (AMES 11-073-1	-140A/B/C/R ORB	.99833	BLE CP	. 1580						042/·	.9500			2186	200 m	. 89833	و ن ب	. 156.0	•		
	(0A14B)	MACH .	NT VARIABLE	.1120	- 0817	0193	.0568 .0788 .1968	.2480		.2733	.9210		2246 2182 1171				T VARIABLE	. 1120	er se	0307	0107 .0000 .1241
TABULATED PRESSURE DATA	AMES 11-073(0A148)	.152 H	DEPENDENT	.0700	0102	0313	. 0900 . 0950 . 1503	.1806	٠	.1988	3878.		900. 900. 900. 900. 900. 900.	1494	1227	.208 MACH	DEPENDENT	.0700	0237		. 0018 . 0018 . 0673
TED PRES	AME	. 6		.0460	¥160.	1835	. 1875 . 2019 5125	.2755		.e784	.6210		2057 1858 .0561 .0859	. 1867	.4560	<i>•</i>		.0460		•	. 1635 1635
TABUL	٠	BETA (2	AGE	.0230	.21 92 .2396	35. 35.	.4026 .4156 .4187	.3856	•	.3577	.7790		0845 0645 1158 0255	1736	. 2005 2005	TA (3)	J	.0230	.2060 .2012	88.Cr.	.3003 .3003 .3750
		3.896 E	11 CRBITER FUSELAGE	.0080	.6747		50 50			.5695	.7290		0037 44 16 3285	- 12±	0209	99 BETA	PUSELA	. 0080	.6510		.3783
87 87		•		.0000	1.2100					1.2100	.6520		.0397 2418 1829		0561 0561 0545	3.899	DOPRETER FUSELAGE	0000	1.1935	•	
CATE 10 FEB		ALPHA (3)	SECTION (X/LB	74.1 .000 .000	5.69 32.69 32.69 33.69 33.69 33.69 33.69 33.69 33.69 33.69 33.69 34 34.69 34 36 36 36 36 36 36 36 36 36 36 36 36 36	20.000 120.000	150.000	165.000 165.000 169.000 174.000	180.000	X/LB	Ē	000000000000000000000000000000000000000			ALPHA (3) :	SECTION (X/LB		5.000 9.000	90.000 120.000

	6			.3780	.0428	.0326	.0390				Ž		3780	.0380	0872 1020 2469	•.1829	0565
4	(XEBB04)			.3010	3032	2033	2447				- 1059.7		.3010	0198	1976 2541 5573	4556	5006
				0162	-1.0322	8727	9556				<u> </u>	•	.8510	0579	4989 6115 6544	£.	6443
	•			.2040	6780	9831	-1.1049	1.0460	. 0031		569.51		2040	0397 0409 0361		5/03 48/2	-1.0273
-	FUSELAGE		٠.	.1770	. 0843	. 1526		1.0180	.3510 .1991		**		1770			1750	203
AMES: 11-073-1	8			. 1660	.4372	.5586	.5679	0666.	Î		ø		.1660	0137 0102 0105	. 0506 . 2036 . 2036	. 36 .7	.6025
-	-140A/B/C/R		BLE CP	. 1580		į	.6721	.9600	0110 0478 1240 1745	2646 2191 2070 3021	. 89900	ALE CP	.1580				.7016
4 - 04148			DEPENDENT VARIABLE	.1120	.2081		.2631	.9210	2057 2057 1331 1899	3365 5320 4985 4531	MACH =	IT VARIABLE	.1120	.0970. 5790.	2069 2069	.20G2	
TABULATED PRESSURE DATA	AMES 11-073(0A148)	4.208	DEPENDE	.0700	. 1447		.1887	.8790	- 2461 - 2491 - 3837 - 5386	6222 5387 4323 2306	-3.903 M	DEPENDENT	.0700	. 1959 . 1133 . 1822	1984	.1105	
TEO PRES	AME			.0460	. 2399		.2395	.8210	- 1878 - 1878 - 0062 - 0072	.3017 .3017 .4251			.0460	. 1981 . 2357 . 2885	2.08. 5.45. 5.75. 5.75.	103	
TABULA		BETA (3)	AGE	. 0230	.3322		.3559	.7790	0716 0602 1370 0624	.0478 .1637 .1780 .1805	BETA (1)	10 6	.0230	. 3653 . +107 . 5282	515. 15. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16	356	
		3.899 BI	ER FUSELAGE	.0080			. SF 50	.7290	. 3935 - 3784	1274 0051 .0122	7.895 96	IR FUSELAGE	. 0080	.8058	.6356		
9.76		3.6	1) ORBITER	.0000			1.1935	.6520	. 0520 . 0483 2268 1667	0922 0467 0604	a 7.6	110RBITER FI	. 0000	1.1663			
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 140,000 150,000 151,000	162.000 165.000 169.000	180.000	81/X	70.000 70.000 70.000 90.000	135.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	74 20.000 40.000	95.00 96.00 90.00 90.00	140.000 150.000	167.000 165.000 174.000

0.64

.0047

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-.0395

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PAGE		•		0/84·	. 900R					•	į	0.64°.		. 0978	0213	4		8	.0039		•
	Ê		ļ	8 8	- 1188					7 ENT		780 20	.0461	6.29	0943			.027	.0175		
	(XE8804)			3010	+06+					- 1059.7		3010	0155	0404	2531 2510	6.55.1	5004	4486	34BP		
				<u>8</u>	6549					<u>.</u>		939	0563	·	5913	, /C4	DC	6586	6611		
				. 2040	9492	1.0460	. 1354			599.51		. 2040 1	0373	9838	1176 2553	- 5076	 5	-1.0405	-1.1414	1.0460	. 1336
_	JSEL AGE			0771.	·	1.0180	. 2982 . 2581			966 #		0771		•			1740		•	1.0180	3000 1949 1949
VES 11-073-1	7 978 F			.1660	.4978	0686	Ŕ	00 100 100		ø		.1660	0130	0159 0016	0371 0390 0245	1362	.5008	1287	.5393	0666	
	-140 VB/C/R ORB FUSELAGE		e, 3	.1 780		000.6	0 64 0 13 133			.89 i00	LE .P	0951	·						.6 21	8	0 53 0 53
- 04148	•		T VARIAB	.1120	.2012	.9210	2529 2515 0473 1113	2157 1926 1674		HACH .	IT VARIABLE	.1120				. 1683	. 1973		.2161	.9210	2533
PRESSURE DATA - DAIYB (AMES 11-073(0A148)	903	DEPENDENT VARIABLE 'P	.0700	.0983	.8790	1923 1966 0800 1108 1958	- 30% - 3261		.140 PM	DEPENDENT	.0700	: 0962	. 1310		. 0965	. 0998		.1086	.8790	1880
	AMES	-3.903	_	.0460	8441.	8210	1199 1027 .0972 .0774	. 0834 969 969	9 9			.0460	.2047	.2285 .2285	88.5 58.5 58.5 58.5 58.5 58.5 58.5 58.5	.1862	.1857		.1805	.8210	1217
TABLEATED		(1) Y	뇄	.0230	.2145	.7790	.0000 .0255 1099 0370	1004	1001 1001 1101	BETA (2)	Ħ	.0230	9898	3806	429 3000 188 181	.3380	.2762		Ŋ.	.130	0020 .0189
		S BETA	FUSELA	0800.	.4205	.7290	5687	2393	1049		R FUSELAGE	0800	.8103		0264				.4206	.7290	6460.
æ		- 7.895	1) ORBITER FUSELAGE	.0000	1.1663	.6320	. 1325 . 1373 - 3115 - 2565	•	25.1. 25.1. 26.1.	- 7.900	1) ORBITER	.0000	1,1775						1.133	.6520	1349
DATE 10 FEB 76		ALPHA (4)	SECTION (X/LB	PH1 180.000		FH11 *0.000 70.000 90.000 105.000			ALPHA (%)	SECTION (X/LB	E .	20.00 20.00	18.5 18.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19	170.000	150.000	. 50 . 50 . 60 . 60 . 60 . 60	174.000 160.000	X/LB	PH1 . 000 . 000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .140

BETA (2) =

ALPHA (4) . 7.900

			3.5708		5740	1380	. 1622								
			•		6	<u>.</u>	.0859	0315	0175	.007Z	.0120	DOS			
			7 REVA		.3780	.0493	.0253	0897	0662	0035	.0162	0510			
		:	- 1059.7		.3010	0208	1080	2502 	3334	4075	3619	£099			
			Q.		.8510	0577	:589	6498	- X	6661	7062	7890			
	1.0460		599.51		.2040	0374	0957	2105	7.5	-1.0152	-1.9413	-1.1608	1.0460	. 1304	
	1.0180		8		.1770		•			.0723	-		1.0180	. 285. 28.33	
	3666.	3310	0		.1660	0164	9.00		040	3.	.5203	.5270	0686.		2706
BLE CP	.9600		.89900	BLE CP	.1580				•			e E	0096	0157 0547 1507 1920	2755 2579 2628
DEPENDENT VARIABLE CP	.9210	. 2094 2094 2094 2795 2779	MACH	NT VARIABLE	.1120	-0062	.0177	. 95.5 95.5 95.5 95.5	1188	. 1660		.2008	.9210	- 2556 - 1879 - 1875 - 1835 - 3019	5131 4065 4650
DEPENDE	.8790	1778 3579 4737 4731	4.209 M	DEPENDENT	. 0700	.0818	.0632	200	.0291	. 0630	•	.0992	.8790	1948 2171 2664 4679	5442 4459 3913
	.8210	. 1004 . 1004 . 1004 . 1009 . 1009			.0460	. 1806	1653	0880	1116	. 1515		.1531	.8210	1262 1066 0521 0528	.0185 .2830 .3450
AGE	.7790		BETA (3)	AGE	. 0230	.3306	3371	27.7. 58.7. 58.8.	5609	.2338		egy.	.7790	.0110 .0260 .2182 .1650	0568 .0635 .0996
ER FUSEL	.7290	6112 4724 2353 121.	7.897 B	ER FUSEL	.0380	.7921		48.5E				.3901	7290	. 5879 - 5879	2175
1) ORBITER FUSELAGE	.6520	3133 2549 1952 1128 1128		1) ORB! TI	.0000	1.1563						1.1563	.6520	.1311 .1375 3029 2332	1605
SECTION (X/LB	70.000 105.000 110.000 120.000 135.000 165.000	ALPHA (4)	SECTION (1) ORBITER FUEZLAGE	X/LB	PH! .000 20.000	40.000 55.600	70.030 90.000	120.000	150.000 151.000 167.000	165.000 169.000	180.000	X/LB	PH	120.003 135.000 150.000

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DATA
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TABLE
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AMES 11-07310A1481 -140A/B/C/R ORB FUSELAGE OA148 (AMES 11-073-1)

1060.7 1.0180 1.0460 599.5 3666. .9600 .89830 DEPENDENT VARIABLE CP .98 -.2272 -.4304 -3.890 MACH .8790 .8210 W-70 BETA (1) = **8** BETA SECTION (1) ORBITER FUSELAGE 7290 -.0934 -.1238 -.0827 7.897 **≡.985** .6520 X/LB

5740 STEN. -.0:76 -. oete Z 3780 1036 .1210 1,487 1,4196 -: PXX -.2281 -.235: .3010 9458 0673 -.6179 -.5486 -.5070 -. 5725 -.5716 S 0880 10: 2040 -.8176 -. 7085 1.0460 1770 1.0180 1000 1000 1000 1000 .1660 9880 0690 0789 1103 0521 0521 0533 5613 . 18g. 4557 .9600 . 1580 . 60409 DEPENDENT VARIABLE CP .1130 1140 .80 .0700 .0117 9780 .D460 .0612 32.43 33.73 33.73 33.73 22.74 22.74 14.53 .8210 .0230 5036 5506 6183 5692 5692 4685 8937 1611 .0952 **BELL**: SECTION (1) ORBITER FUSELAGE .0080 . 9272 3816 222 . 7290 .0000 1.1023 1.1023 .6520 KPHA - 53 PHI 165.000 180.000

.2165

-.7309 .1623 -.2601 . 226t

.4205 2755

K.P.K (5)

TABULATED PRESSURE DATA - DAING (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ONB FUSELAGE 11.982

-. 0093 .0038 -.02:1 -.1788 -.20% - . rog 3010 -. 5282 - 9487 -.5363 -.5922 1257 -.6149 -.6188 -.8975 -.9743 -.6700 2040 1.0460 170 1.0180 .4161 .2457 SPES. 9990 1404. 4834 .1580 .5849 .9600 DEPENDENT VARIABLE CP .1120 ¥:1: .9210 .1401 .0700 .0115 -.0126 .0637 . 9460 .0615 .8210 .83 . 139 SECTION (1) OPBITER FUSELAGE .0000 .2123 .7290 -.7270 -.5854 .169 -. 2833 -. 1337 -.1177 .0000 8450· .6520 -.2206

DATE 10 FEB	EB 76		TABULA	TED. PRE	SSURE DAT	TA - 0414	TABULATED. PRESSURE DATA - DAINB (ANES 11-073-1	11-073-	•					PAGE	R	
				¥	APES 11-073(0A14B)	3(04148)	-140A/B/C/R	8	FUSELAGE		,	(XEBB05)	₩,	8 ALC	k	
	REFER	REFERENCE DATA	7									PARAMETRIC DATA	C DATA			
SREF LREF BPCF SCALE	2690.0000 47*.8000 936.0880 .0300	50.FT. IN. IN.	9847 9847 9847	375	776.6800 IN. .0000 IN. 775.0000 IN.	228				187	BOTLAP .	. 000 16. 300 . 000	SPOBRK L-ELWN MACH		500. 000. 000.	
ALPHA (1)	3.996		BETA ()		-7.893	MACH	.59580	æ	8	593.15	.	- 2387.2	778	ہ نے	*.B118	
SECTION	(1) ORBITE	DORBITER FUSELAGE	IGE		DEPENDENT	INT VARIABLE	BLE CP	4			t					
X/LB	0000	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	0403.	50.00	.3010	.3780	£93.	3740	
i E					. (,			i.	
20.000	1.01/6		2140	22536		1976		平5.		85.	1208	0938	0748	0592	0677	
40.000 10000			0365	2163	2958	3082		3672 3672		327	2639	1942	- 1523	1395	1407	
70.00			2919	. 06+43	0130	- 1058		- 1350		1553					•	
90.000		.7468	5580		. 2383	1408		0026		1196	15.28	- 0019	9. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	2000 2000 2000 2000 2000 2000 2000 200		
120.050			.6310	. 4666	.3538	3346		1950		3. 1.	- 178	1618	0110			
150.000			.5782	.4305	.3514	.3518		.5638		1900	3066	1004	0326	001		
162.630									ó Š							
169.000								.5745		9400	2313	-174	0513	01G		
187.000	1.0172	ET11.	88 ⁴⁴ .	3406	.2802	2926	ST07.	.3664	,	-1.1866	22.78	1333	0562	0370		
K/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0%60						
Ē									,							
900	. 1105	1302	1673	2112	- 1714	1575	- 03 J		.2338	01.0	<u> </u>					
70.000		.0071	.0830	. 1863	. 05.49.	3.56 			.1430	0216		·				
96.000 105.000	8. 13.	.0511	. 1305 . 1806	5.25. 5.25. 5.25.	. 0892 0892	0358 0942	1225					,				
110.000	ć							3058			·					
135.000	D. 04.0	£ 65 .	į į	12071	- 1239	1020 1020	- 1582 - 1582	2325								
150.000	0250	. 09 1 9	2707	3270	2686	0.585	- 1756									
180.000	037	6440.	1683	.3223	0/01.	3. 2. 2. 3. 1.	CI/3.		٠							

6	!	*.e118	ĺ	r.	.808	- 0888					•			*.8118		e C	0822	0718	
PAGE		•	•	264	.9420	.0998	988 988 888	8	.0166	8700.				•			. 039.	Ē	56. 58.9 59.9
	_ '			.3780	0533 -	- 1611	.0348 .0146 .0041		0238	0319				2 May 2		.3780		0706	0108 0108 0346
	(XE8805)	2387.2		3000	0781	1320	0379 0598	0862	0965	0933				- 2387.2			0717	0893	0646 1035 2469
		•		183	1050	2008	1762 2120	. 2695	2074	1939				· •		8	0999	1473	2116 2631 2917
		593.15		.2040	98		- 1823 - 2670	2612 4078	9289	-1.1498	1.0460	0384		593.15		0402.	1872	2126	888 888 888
_	USELAGE	. 593		170					1980	'	1.0180	. 1439		•		17.			
WES 11-073-1	/R ORB FI	o		.1660	299	1986 2961	1772 1080 0969	.5070		. 5638	.0666	1	3133 2478 2478	o		.1660	1590	A A	. 1755 - 1755 - 1937
	-1401/B/C/R ORB FUSELAGE	.59380	LE 79	. 1580						.6461	.9500		2:12 1'91 1507	.59580	RE CP	1500			
- 04148 (3	T VARIABLE	.1120		2000 1000 1000	1353 .0035 .0452			.23	9210	- 1538 - 1280 - 0223 - 0801 - 1400	1812 1099 0864 0898	HACH	IT VARIABLE	.1120	Š	- 222	0662 0649 0549
PRESSURE DATA	MES 11-073(0A148)	B77 MACH	DEPENDENT	.0700			0583 .0573 .1394			3078	3678.	1711 1856 0071 0582		.156 H	DEPENDENT	.0700	2148	1000 1000	1038 0329 . 0194 . 1529
ED PRESS	AMES	-3.877	_	.0460	1866	1989		. 3280 . 4.195		.3899	.8210	2140 2159 .1350 .1715	.3703 .4384 .4145	•		.0460	1804	1786 1838	0548 .0350 .0982 .2572
TABUL ATED		EETA (2)	Ä	.0230			.2134 .3463 .4373			.4870	.7790	- 1624 - 1749 0385 0923	6757. 8893. 8785. 8785.	BETA (3)	E E	.0230	1725	1572 0132	. 1313 . 2347 . 3142 . 4246
•			R FUSELAGE	.0080	1806		.6130			1757.	.7290	1286 0265 . 0202	1711.		R FUSELAGE	.0080	.1836		#G#.
92		-3.98	1) ORBITER	.0000	9850					986	.6520	- 1035 - 1747 - 0725 - 0286	9499 6489 8488	-3.973	1) CRBITER	0000	1.0659		
DATE 13 FEB 76		ALPHA (1)	SECTION (X/LB	1 Hd	2000	75.000 70.000 90.000	120.000 140.000 150.000	25.25 25 25 25 25 25 25 25 25 25 25 25 25 2	169.000 174.000	X/LB	E . 35. 88. 35. 88. 38. 88. 38. 88.	12.5.2.5.6.6 12.5.2.6.6.6.6 12.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	ALPHA (1)	SECTION (X/LB	FH!	20.080 40.000	95.000 70.000 90.000 120.000

88			e de							4.0118		S.	. DEX.	-910					
PACE			606¥.	50.	5459	.0213				•		56	9.52	0493	9-62			600.	
			.3780	0221	0209	0195				אשע פ		3780	053	02.	0031	0705	, ce .	0+00	
(Signature)			.3010	0903	0946	0853				- 2387.2		3010	0768	0615	0790		<u>.</u>	0993	•
# ** *			.23:0	2495	1927	1782						33.0	1037	1145	2370	3370		2018	
			.2040	3535	9319	-1.13:8	1.0460	.0459		51.		.2040	0821	1806		4409 4296	2040	9398	
,			.1770		. 1016	•	.0180	. 126.9 1260		• 593.15		0771.					1039	3	
11-073-1	5		. 1660	.4173	.5252	.5173	0666.		i. i. i. i. i.	0		. 1660	. 1632	. 2132 	- 2322 - 2382 - 2781	- 191.	2692 2692		
PRESSURE DATA - DAING (AMES 11-073-1)		LE CP	. 1580			.68j.	.9600	0483 0836 1168 1539	2745 2203 1959 2828	.59587	LE CP	.1580							.6157
- 04146		T VARIABLE	.1120	.2781		.3320	.9210	1558 1372 0555 1153	2666 17:3 1680 1719	MACH -	I VARIABLE	.1120	į	686	- 1363	.0216	*****		
RESSURE DATA - DATA	.156	DEPENDENT	.0700	.2878		.3290	.8790	1724 1866 0500 1223	3309 2432 1746 0223	.231 MA	DEPENDENT	.0700		2002. 2003.			5715.		
			.0460	.3739		¥104.	.8210	2129 2129 .0902 .1029	. 2348 .4687 .4898	<i>;</i>		.0460	2883	2961	0569 0310		.3120		
TABULATED	BETA (3)	3	.0230	0064.		186h.	.7790	1658 1713 .0035 .0561	. 1623 . 253 . 253 . 253 . 1855	BETA (4)	3	. 0230	1881	0714	1071.	.3016	ž. 8		
		R FUSELAGE	.0090			.7323	.7290	1291 0527 0082	. 1086 . 1191		1:0981TER FUSELAGE	.0069	.1567		.2830				
ا ر	= -3.973	1) ORBITER	.0000			1.0559	.6520	1078 1553 0269	.0285 .0532 .0515 .0515	-3.981	1:09817E	0000.	1.0438						
DATE 10 FEB 76	ALPHA (1)	SECTION (K/LB	PH1 140.000 150.000	162.000 165.000 169.000	174.000 180.000	X/LB		135.000 135.000 150.000 165.000	ALPHA (1)	SECTION (X/LB	PH1 .000	200	70.000 00.000	120.090 140.000	15c.000 151.000	155.005 155.005	169.000

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BETA (4)

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	(XEBB05)
TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
E 10 FEB 76	

5740 -.0773 -.0313 57.0 .4970 9800 £978 -.0600 .0331 .0213 -.0526 .3780 -.0329 -.0713 -.0154 -.0355 -.1218 -.0287 3780 -. 1030 .0893010 .3010 -.0915 -. 09Pt -.0600 -. 1503 南一 Š -. 1952 -. 1232 -.2285 .8333 .3931 -.2728 -.2367 1.0460 -1.1579 -1.1165 .2040 .2040 -.9912 1.0460 593.15 170 1.0130 .2326 .1381 371: 1.0180 .2305 .1166 0666. . 1660 .4967 -. 3230 .1660 0666. -.237k -.2731 -.3388 -.3331 3761 3966 . 1481 . 1580 . 1580 .9600 天态. .9600 -.0480 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .9210 .3213 -.1589 -.1357 -.0871 -.1552 -.2234 -.3572 -.2644 -.2626 -.2713 .1120 9210 -.1568 errs. 107 MACH .0700 .0700 .3130 .8790 -.1789 .2689 .8790 8.308 .0460 .8210 ¥. .0460 -.1713 -.1528 -.1396 -.0046 -.2191 .2216 .33+0 .8210 BETA (5) .4917 .0230 -.1651 -.1567 -.0352 .0085 .0230 - 1999 - 1999 - 1836 - 0480 - 0480 - 0500 - 0500 - 1650 .730 .0682 .1777 .1991 .2092 .2368 2755 -.1509 1117 0677. SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 .6988 -.0814 -.0343 .000 .7290 -. 1225 .0669 .0993 .1397 . 1943 -.007 6339 .7290 -.1366 -3.995 .0000 1.0438 -.0993 -.1290 -.0400 -.0056 .0000 -. 0095 .6520 .0267 .0315 .0395 -.1167 92.00 .6520 9976 ALPHA : 13 PH! 180.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 X/LB X/LB 품 K/LB K/LB

(XE8805)

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

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BETA (5) =

ALPHA (1) = -3.995

				₹.8092		.5740	0234	0556								
				•		.4970	0231	0672	.0593	0421	0556	0613	0661			
				PAN'L		3780	6515	0751	.0326	0626	0797		0939			
				• 2387.2		.3010	0670	0936	0193	2179 2179	1542	1648	1949			
				•		0183.	0978	1452	1288	2249	3994	2821	2649			
	1.0460		٠	592.56		.8040	1811-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 0959	1570 1670	4606 4606	1.1129	-1.3501	1.0480	0190	
	1.0180			- 590		0771.						<u>8771</u>	1	1.0180	.1750	
,	3666.		- 3105 - 3105	σ		.1660	1372	. 2233 25233 25233	86	14. 14.	1198.	.5161	.3068	0666.		90 % 90 % 90 %
BLE CP	.9600	377	3889 3277 2994 2800	. 59552	RE CP	.1580							5612	.9600	0397 0972 1649 1698	. 1578 . 1578
DEPENDENT VARIABLE	.9210	1068 1722 2497	4451 3508 3828 3643	MACH .	DEPENDENT VARIABLE	.1120	. 1972	1590	1332	. 2856	.2671		.2112	.9210	1472 1141 .0242 0386	1-8* 0929 0696
DEPENDE	.8790	1335 2075 3502	5897 4928 4429 2771	-7.930 M	DEPENDE	0000.	1609	25.5	1988	, 04 04 04 04 04	.2557		. 1863	.8790	1525 1667 .0413 .0034	1479 1436 1373
	.8210	. 0052 9900.	1154 .1696 .4534 .3770			. +60	1206	- 05.35 - 05.35 - 05.35		. ±002	.32£.		.2507	.8210	1787 1809 .1829 .2295	.5059 .4423 .2427
AGE	.7790	0785 0545 0081	0237 .0695 .1066 .1277	BETA (1)	IGE	.0230	0650	0603	505	9578	.4620		.3312	.7790	1286 1315 .0405 .0318	.2385 .2385 .2230
I) ORBITER FUSELAGE	.7290	1089	0505 0116 .0376	001 EN	DORBITER FUSELAGE	. 0080	.3286		É				.5926	.7290	0808 0673 0184	.0345
	.6520	0613	0432 0368 0318	•	1109011	. 0000	1.0431						1.0431	.6520	0541 1684 0839 0409	0689
SECTION (x/re	76.000 105.000	135.000 135.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	PH1 .000	40.000 55.000	00.00	150.000	150.000	162.000 165.200 169.900	30.000	X/LB		120.000 135.000 135.000

(XEBB		2387.2	9:	0514 0608 0653 2210 1302 1324	
		• •	0185	1137 1137 2036 2570 3425 5589	
	1.0460	592.56	.2040	- 10195 - 1637 - 15314 - 15345 - 25345 - 5015 - 5015 - 1.3181	
VSELAGE	1.0180	# ·	.1770	. 1205	
TABULATED PRESSURE DATA - 0A148 (AMES 11-0/3-1 / AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	9868.	ø	.1660	1908 1806 0509 0609 5023 5023	
140A/B/C	.9600 2730	.59552	. 1580	\$35°	•
- 0A148 0A148) -	930 DEPENDENT VARIABLE CP .8790 .9210 .960	MACH =	DEPENDENT VARIABLE0700 .1120 .1	. 1629 . 1324 . 0236 . 0366 . 0815 . 2217 . 2522 . 2522	
URE DATA	-7.930 DEPENDEN 10 .8790	-3.896 M	DEPENDEN		
ED PRESS	* 58 8	6 "	.0460	0345 0938 0935 1264 3186 3210 3210	
TABULAT	BETA (1) 1.1AGE / 7.790	. 1413 BETA (2)	.0230	2020 2008 2375 2326 23969 2424 2424 2423 2543 2543 2643 2643 2643 2643 2643 2643 2643 26	
	01 BE R FUSELA .7290	. 008 BE	TR F1'EEL/	.6031. .6031. .6203.	
76	. 65500407	0456 0	110RB1TE	1.0800	
DATE 10 FEB	ALPHA (2) =001 BETA SECTION (1) ORBITER FUSELAGE X/LB .6520 .7290 . PHI 165.0000407	180.000 ALPHA (2)	SECTION (1) ORBITER FYSELAGE X/LB . 0000 . 0080 .	PH1 20.000 40.000 70.000 120.000 150.000 157.000 169.000 180.000 180.000	

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-.1200 -.1181 -.0037 .0554 .1121 -.0756 -.0997 -.0466 -.0473 -.0886 -.1128 -.0610

.0530 .0335 -.0355 .002. 1000. 1000. 70.000 70.000 70.000 105.000 135.000 155.000 165.000 180.000

.2524 .0182 .1652 -.0351

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	302)	FRVL	•	2007		0238	0245	9760	0300		. 6465	0437	1									į	\$. 5780	.0330	.0145	- 0366
	(XEBB02)	- 2387.2		0102		0517	0403	DPG0			. 1610	1224 ·	4111										2387.2		0105	- 9250	0386	1118
		a .				0722	0886	2161	0367	9602	906.	2354	- 2267						•				•		9163.	- 24-80	- 6460	85 A.
		592.56		.2040		0988	- 1417	2197	3216	4039		-1.0808	1.2860	0010		. 0229	0467									1051	•	769k 3893
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	C/R 0RB	G		.1660		1160		1366	1515	.3707		.4687	.4462	OCO.					3211			G	ı	1650	•	.1183	1733	1939 2289
	-1404/B/	.59552	BLE CP	. 1580									.6273	0095		0365	0772	1653			.2715	59552	о С Ч				• •	• •
		MACH	NT VARIABLE	.1120		1480	1183	¥.01.	0158	.2166			.2563	.9210			525		•	5963	. 2045		VARIAB	.1120		1430	.1310	0859 1008
MEE 11-0721041101	5/0-11 c	± 	DEPENDENT	.0700		1331	1091	8600.	1248	.200¥			.2219	.8790				1322		9696		.214 MACH	DEPENDENT	.6700		- 1459 - 1459 		0578 0578
AME	τ	# 		.0460		0773	0499	₹. 60:	. 2255	.2879			.3020	.8210		1775			. 1759	. 3613	0154	•	٥	.0460		0855 0818		. 05.00 . 07.00 . 0.00 . 0.00
	RETA (2	_	AGE	.0230		0834 0004	.2316	. 2812 . 2812	38%	. 3936			. 3853	.7790	•	- 1245		. 0809 0809	. 1548	. 2155. 5755.	.2232	3	ĬŊ	.0230		0390 0342 -		
	a		I JORBITER FUSELAGE	0800		3738		457			,		.5995	.7290		- 4070	·	1728	.0156	.0703	.0860	IB BETA	FUSELAGE	.0080		- 5945.		-5863
				.0000		1.0898							1.0896	.6520		•	- 1286	•	0199	.0128	-910. 57.19.	800.	13 ORBITER	C000.	į	/995.1		-
	ALPHA (2)		SECTION (X/LB	?	. 750 20.600 40.000	55.000	90.00	120.000	150.000 151.000	162.000 165.000	169.000	180.000	X/LB				000.00	-			ALPHA (2) =	SECTION (1	87/K			25.060	90.003 120.000

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į	6			3780	- 0809	0980	0585		<i>:</i>	• .	₹ 8	.3780	0413	- 625	0451 0396 0727	0900	0850
	(XEBB02)				1308	1265	1245				2387.2	.3010	070°	0499	1315 2810	1540	. 1600
				8 5	2879	2410	2346				•	9.85	1010	1069	- 2997 - 3657	2925	2652
				.20±0	4824 6139	-1.0761	-1.2793	1.0460	.0158		592.56	.2040	1157	- 188 502 503	188 ± 18		-1.11 <i>2</i>
_	USEL AGE	•		0771.	1339		•	1.0180	. 1330 . 1330		3 60	.170				-,2981	1523-
AMES 11-073-1	-140A/B/C/R ORB FUSELAGE			.1660	.2678	.4085	.4274	0666	. 5	- 2746	0	. 1660	1417	5. 1 5		. 1225	323
_	140A/B/C		65 13	.1580			.5660	.9600	0363 0651 1297 1787	3015 2691 2513 2750	.59552	1.E c.º	,				.5021
- 0A14B			T VARIAB	.1120	153		.2461	.9210	- 1451 - 1234 - 0886 - 1533	3287 2513 2822 2851	#WCH #	IT VARIABLE		150	1569 1487 1768	.0634	
PRESSURE DATA	AMES 11-073(0A148)	4.214	DEPENDENT VARIABLE	.0070	.1536		.2203	.8790	1528 1747 1041 - 1774	4342 3683 3205 1845	8.269 M	DEPENDENT . 0700.	7.1647	. 1586 1584	- 1423 - 1483 - 1575 - 0973	.0597	
	AMES	•		.0460	.2395		. 278 6	.8210	1868 1651 . 0221 . 0275	.1046 .3068 .3749		.0460			- 1082 - 1043 - 1005	.1508	
FABULATED		BETA (4)	Ä	.0230	35.5		£172.	9677.	1282 1138 0829 0219	. 1583 . 1583 . 1896 . 1922 . 2059	BETA (5)	MGE . 023C	Į.	0.0670	0.00 81.70 81.70	.2240	
		. 008 BE	R FUSELA	.0080			.5722	.7290	0824 1552 0997	0277 .0%22 .0657	.003 86	TR FUSCL.	0.15	315	.1035		
2		ō.	11 ORBITER FUSELAGE	.0000			1.0667	.6520	0476 0601 1433 0857	0412 0034 0007		DORBITER FUSCLAGE.					
DATE 10 FEB 76		ALPHA (2)	SECT: ON C	X/LB	PHI 150.000	151.000 162.000 165.000	174.000 180.000	X/LB		1.0.060 1.20.050 1.35.000 1.50.000 1.65.000	ALPHA (2)	SECTION (Ē	20.00	28.58 68.58 68.58 68.58 68.58	150.030	151.551 165.551 165.000 169.000

AMES 11-073-1 3
- 04148 C
TABULATED PRESSURE DATA
TABULA
DATE 10 FEB 76

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BETA (5) *

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ALPHA (2) .

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

E DEPENDENT VARIABLE0230 .0460 .0700 .1120 .1	
194	3270 .7258 .1698 .1944
.9210	0158. 0879. 0810
. 1529 0421 . 1278 0607 . 1148 - 1412 . 2029 2533	
.42503676 .35933257 .39313190 .39162781	1111
. 59500	
VARIABLE CP	
.1120 .1580	
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00.00	. 1125
1562	22.70
. 1554 . 2219	. 3355 . 2342
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NLATED PRESSURE DATA - DAI48 (AMES 11-073-1)	
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.9990 1.0180 1.0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE -.0541 -.1249 -.1717 .9600 DEPENDENT VARIABLE CP .0319 -.0383 -.0828 .9210 . 928 .0461 .0131 .0611 -7.936 .8210 .1765 2298 3773 BETA (1.) **BEF**. SECTION (1.0RBITER FUSELAGE 7298 -.1337 3.907 -.1925 6520 DATE 10 FE9 76 ALPHA (3)

3780 2387.9 .3010 至.188 -.3081 -.2468 .59500 HACH . - 1357 - 1289 - 1001 - 0572 -.1770 -.1516 -.2033 -3.897 3796 3796 1160 Į. BETA (2) -.0001 .0589 .1007 -.0108 -.0743 -.0111 3.912 -. 1914 LPHA (3) 70.000 90.500 105.000 120.000 135.000 150.000 180.000

.20% 571. -.0699 -.0736 -.0737 -.0367 -.0367 .1660 .1580 DEPENDENT VARIABLE CP .1120 .0700 9.60 .0230 SECTION (1) ORBITER FUSELAGE .0000 0000

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DATE 10 FEB		ALPHA (4)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (4)	SECTION (X/LB	1HG	PH1 20.000 40.000	PH 20.000 40.000 75.000	PH 200 200 200 200 200 200 200 200 200 20	PHI 20.000 25.00	741 75.000 75.000 75.000 76.000 150.000 151.000 152.000 155.000	74. 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000	PHI 20.000 25.000 26.000 150.000 151.000 185.000 187.000 187.000 187.000 187.000 187.000	PHI - 000 20 000 50 000 10 000 110	741 750 750 750 750 750 750 750 750	PHI	PHI	74. 2000 75. 2000 75. 2000 75. 2000 75. 2000 76. 20

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柘	•	- 7.967	1) ORBITER	.0000	.9632					.9632	.6520		1171 18.302	LORBITER	. :000	.9243	
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દ		9								•			1 B/L 7		646.8		.1674	. 203.					
PAGE				2060	1565	1264	}						•	•	600	200	. 1530	1468	1277		17E	1109	
<u>s</u>			.3780	2003	1622								Š		1	.3/80	.1073	.1247	1337		- 1 SE	1193	•
(XE8805)		•	.3010	. 1885	2443		5							2388.K		.3010	.0824	0.0970	1636 1859	0	2350	1903	
•			%	- 6888	4132	•	- 3238							•	1	515V.	. 0580	.0534	2574	<u>ئى : -</u>	5264	3618	
			.2040	4832	-1.5757		-1.9678	1.0460	0020					591.86		040 040	.0602	. 1889 1889	0892 1483 2393	5715	TT	-1.5292	
1) FUSELAGE			.1770		0530		•	1.0180	.3303					÷ 20		170					0346	0839	
			. 1660	.3704		三素.		.9990			2953			0		. 1660	.0697	.0939	0077 0365 0437	. 0081	5. 5.	i	E.
~ }		LE CP	.1580		•	.4833		.9600	.0078	0375 1189 1647	1816	1966		. 59502	RE CP	. 1580							. 4978
3		T VARIABLE	.1120	.007z			₹000 .	.9210	0710	.0465 0211 0753	1810	1948 1480	5 0/0	MACH .	T VARIABLE	.1120		1111	980 980 940 940	.0366	.0301		
RESSURE DATA - 0A11 AMES 11-073(0A148)	188	DEPENDENT	.0700	0638			0809	.8790	0432	0499 0499 649	· 表表:-	- 222. - 3245	ccco.	-3.874 M	DEPENDENT	.0700	.1507	1841	1168	0065	0432		
ο.	= -7.881		.0460	0306			0556	.8210	0347	2508 2508 2508 2508 2508	5319	.2218	. 2958			.0460	75.54	9.05 0.05 0.05	. 2137 7015		0031	٠	
TABULATED	BETA (1)	¥	.0230	.0564			0433	.7790	.0458 9779			.0466 .0390	.0113	BETA (2)	AGE	.0230	74	4635	3.5.5 5.78 5.78 5.78 5.78	1834	.0633		
		1) ORBITER FUSELAGE	.0080				.1127	.7290	.1067	2039	2228	0955	1119		11 OPBITER FUSELAGE	.0080	2010	Gio.	á				
36	= 12.002	1) ORBITE	0000.				.9243	.6520	T+1.	4471 3399	Cya.	2017	1933	• 12.020	1108811	.0000	Š	in the					
DATE 10 FEB 76	ALPHA (5)	SECTION (X/LB	PHI 140.000 150.000	151.000 152.000	169.000	174.000 180.000	X/LB	PH1 .000	70.000 90.000	110.000	135.000	165.000 180.000	ALPHA (5)	SECTION (X/LB	PH 1	20.000	46.600 25.000 70.000	120.000	140.000	151.600	169.000 174.000

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(XE8805)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

-3.874

BETA (2)

12.020

ALPHA (5)

57.0 1696 . 1935 .4970 .*97a -.0799 .1580 -. 1045 -.0775 Ž 3780 -.0825 .3780 <u>87 : :</u> -. 1650 -. 1667 .0855 -. 1028 -.0785 2388.2 .3010 -. 1523 .3010 .0840 -.2063 -.2085 -.3946 -. 1535 . 2 - 196± .83 -. 2889 . 50 50 50 . 1987. 1987. .0661 -.0127 -. ****6 -.31Bt .2040 -. 00592 -. 0069 -1.8182 .2040 1.0460 -1.4843 591.86 1770 .3318 1.0180 170 .1660 9860 .2098 .0564 .0414 .0414 .1020 .1082 .1660 .2736 . 2064 1 . 1580 .9600 -.0280 -.0611 -.1268 -.1850 -. 1879 -. 2254 -. 1925 -. 2288 .59502 . 1580 .4580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0626 -.0168 .0027 -.0597 -.1891 -.1923 -.1584 -.1207 . 1120 .0306 .9210 .1120 .0308 .150 MACH .0700 -.0422 .8790 -.0361 -.0756 -.0119 -.0390 -.2621 -.2588 -.1891 -.0202 .0700 . 1647 . 1649 . 0728 . 0128 . 0438 -.0539 -.0130 -.0260 -.0076 .0862 .1498 .0460 .8210 .1762 .1369 .2556 4107 .0460 2664 2642 2558 2558 1611 1041 0728 **6**036 BETA (3) . 0230 . 0523 . 0800 - 1443 - 0605 .730 .0797 .0761 .0542 .0603 -.0050 . 0230 4210 4312 3359 2565 2565 275 1322 1740 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 . [空 -.3327 .7290 .1127 -.0799 -. 0936 .0080 -.0184 .8236 .2817 12.028 .1614 .1896 -.4814 -.3573 .0000 .6520 -.3147 . 0000 .9491 -. 1036 .9627 ALPHA (5) PH1 180.000 .000 76.000 90.000 1105.000 120.000 135.000 185.000 185.000 X/LB

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148)140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

					AME	S 11-073	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	-140A/B/(YR ORB !	FUSELAGE			(XEBB05)	ĵĝ.
ALPHA (5) =		12.028	BETA	BETA (3)		. 150					4			
SECTION (1) ORBITER FUSELAGE	1.1088	TER FU	SELAGE			DEPENDE	DEPENDENT VARIABLE CP	BLE CP						
X/LB	.6520	. 7290		.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460	•		
Ŧ				!										
90.000	5066			1786	.017: 54:20.	0832	0586	0971 1478						
105.000			-	1 900	180.			£931	3006					
120.000	2141	2201 1		0610	1752	2960	2380 2380	2200	2375				. :	
150.000	1518	90703		1083	4975	- 2958		2195						
165.000 180.000	0938 0858	3 0046		. 1366 . 1419	T074.	1457	2465	2380			٠.			
ALPHA (5) =		12.028	BETA	BETA (4)		4.211	HACH .	.59502	6	\$	591.86	•	2388.2	FBV/L
SECTION (1) ORBITER FUSI	10088	ITER FU	SELAGE			DEPENDE	DEPENDENT VARIABLE CP	BLE CP		.•				
X/LB	.0000	0800. 0		.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780
ā													;	!

57.0

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-. 1932 -. 1639 -. 1439 .4970 .080. -.0780 -.075F .1123 .0326 -. 1846 -. 1625 -. 1587 -.0720 -.076¥ .0709 -.0278 -.2305 -.2224 -.3306 · . . . -.1498 - 169 -.3242 -.3112 -.3931 -. 3039 .0629 -.3852 -.2982 -.0981 -1.6778 -1.3951 1.0180 1.0%60 .3268 .1867 -.2395 9990 .0812 .0258 -.0369 -.1892 -.1795 -.1863 .1657 .246B .2295 . 0258 - 1286 - 1832 - 2408 .¥105 .9600 -.0790 -.0548 -.1126 -.1741 .0679 .0180 .0771 .0790 .0015 .0280 9210 1236 0778 0778 0450 0809 - 0812 -.0387 .8790 -.0715 . 2533 . 2553 . 1662 . 0291 . 0293 . 0406 ₹.01. -.0374 -.0214 -.0519 -.0691 .8210 -.019 .0635 .0635 -2119 -1348 .0130 3057 3057 3057 1871 1250 1163 0621 0208 967. -.4002 .8079 .0808 .7290 .1195 .1151 .6520 . 1556 . 1644 - 3692 - 3692 9 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.0000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.00 888888888 X/LB

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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DATE 10 FEB 76

				4.8047		.5740	.1455	1331	٠						
				•		0.784°.	.1371	.0375	2196	0778	1028	1366			
				FRYL		.3780	.0961	0333	2145 1627	0679	0847	. 1291			
				2388.2		.3010	.0611	1171	1000 to 1000 t		1617	1953			
				•		.2510	.0456	2083	3409 3269		2972	3370			
		1.0460		591.86	. ,	2040	.0359	1870	3312 3235 3984	6508 8363	-1.3708	-1.7305	1.0460	. 0393	
•	•	1.0180		169		0771.					3719 3882 -	1	1.0180	1763	
. •	,	0666		6		1660	.0441	0096 1259	- 2358 - 2358 - 2358 - 2342	. 197		.1823	9880		2793 2793
	LE CP	.9600	2460	.59502	LE CP	. 1580						3478	.9600	. 0325 1511 1511 8585	3308 3311 3376 2912
•	DEPENDENT VARIABLE CP	.9210	3312	3	DEPENDENT VARIABLE CP	.1120		.0215 0820	2296 1478 1417	0788		0098	.9210	0824 0502 1465 3017	3947 3767 4384 4440
4.211	DEPENDEN	.8790	2623	8.278 MACH	DEPENDEN	.0700	. 1225	.0731 0226	- 1581 - 1712 - : 435	1209		8+60	.8790	0500 1078 1945 2805	5387 5350 5437 4974
	_	.8210	1914.	. 8		.0460	2249	. 1660 . 0375	 8.8.8	1026		0462	.8210	0401 0236 1301 1373	.0656 .4966 .4176
BETA (4)	Æ	.7790	10.0	BETA (5)	¥	.0230			0105 0066			0328	.138	. 2532 - 2532 - 2186 - 1660	131% .0532 .0457 .0177
	R FUSELA	.7290	025/		R FUSELA	.0080	.7666		0682			.0128	.7290	.1067	2464 0687 1305
- 12.028	1) ORBITER FUSELAGE	.6520	1059	= 12.020	1) ORBITE	.0000	828					.8825	.6520	.1388 4985 3720	2326 1093 1443
ALPHA (5)	SECTION (X/LB	165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	PH!	20.000 40.000	55.000 70.000 90.000	120.000 140.000	151.000	169.000 174.000 180.000	X/LB		110.000 120.000 135.000 185.000 185.000

F	_		990	900	4.8396		0472		0697	-: 1388									,			
PAGE	05 AUG 75		100				MG70		9950.	1460	949	0360	0022	0170		0367	•					
	-	DATA	COURT	L-ELVN MGH VA	RAY	*		70/2	0705 -	- 1669 -	.0643	9000 8000	0343	. 0530		0726						
	(XE8808)	PARAMETRIC		22.520 .000.	2387.0			. 3010	6963	- 1916 -	002v	0391 1628	- 101	1242	٠.	- 1288						
		2	(RODER = BOFLAP = R-ELVN =	•				1239	2651		1577	3148	2342		2311						
	•		1	58°	593.39			040a.	-, 1463	-, 1999	1591	- 135	3588	9423		-1.1825	1.0460	.1018		•		
	FUSELAGE				- 593			.1770					į	288		•	1.0180	. 3439 5129	r			٠
1-073-1	78 ORB FL				ø			. 1660	1820	3682	11.16	0070	.5659		.5704	.3613	.9990		1107	64CN -		
(AMES)	-140A/B/C/R ORB				.59594		원 백	.1580	Ť						7900		.9600	91.40. 01.40.	0845 1431 1858	1688	2989	
94140	TABULATED PRESSURE DATA CATTO THOUSE AMES 11-073(0A148) -140A/B/C/R ORB FUS			928		į	r variabi	.1120		2823	1272	15 E	.3467			.2867	.9210	1078	0490 0490 1001	1175	0178	
DE DATA				ZZZ	BB3 MACH		DEPENDENT VARIABLE	.0700	- 2077			2376	3496			. 27.18	.8790	1460	. 0933 0933	1350	0753 .1648	
555				1076.6800 .0000 375.0000	= -7.883			.0460	6001			3347 748				.3462	.8210	2005	. 3460 . 3460	.4985 .4857	.3170	¥18.
			•	XYERP YHERP ZYERP			R	.0230		2003		6400. 6400.				.4518	.7790	1581	. 1281 1750 1750	.2486 .2883	1285. 1215.	. 1650
			REFERENCE DATA	S0.FT. IN. IN.		* -4.026 BETA	R FUSELA	.0080		1041.		.7455				.7162	. 7290	1275	.0036	.0897	. 0883	.0405
!	5			2690.0000 474.8000 935.0680	.0300		1) ORBITER FUSELAGE	0000		1.0161						1.0161	.6520	1064	9.9. 8.0.9.	.0320	.0076 .0076	0176
	DATE 10 FEB 76				p •	ALPHA (1)	SECTIO"	X/LB	Ī	.000 20.02	40.000 55.000	90.000	120.000 140.000	151.000	165.000	17.000	X/LB	PH1 .000	70.600 90.600 105.000	110.000 120.000	150.000	180.000

82		4.8396			*190	1030							8258.		.5740	05:00
PAGE		٠,		603	0382	1013 .0793 .0664	.0186	5600.	6000.						0.64	388 .0573 .0577 .0401
	(90)	7		1200		1115 0337 00129	0159	0239	0291				. TAN		.3780	0500 0678 0072 0065
	(XE8808)	- 2387.0		0102	0727	1339 0399 1974	0853	- 1009	- 9966		· · ·	, , ,	2387.0		.3010	0759 - 0871 - 1056 -
		Q.			1016	1765 2127 2248	2692	2059	1954				•		.2510	1020 1509 2160 2849
	•	593.39		0402	1306	1939 1849 2673 258	2658	7.9316	-1.1547	1.0460	. 1901.		86		.2040	- 1268 - 1448 - 2715 - 3536 - 3536
<u>-</u>	FUSELAGE	8		.1770	·		Ĭ	188	•	1.0180	.2583		• 593.39		0771.	
AMES 11-073-1	C/R 0RB	o		.1660	1608	1745 1045 0973	.5040	.5644	.4716	0666.	,	- 3409 - 2677	a		.1660	1581 1810 2491 2087 1827 1952
	-140A/B/C/R ORB FUSELAGE	.59594	BLE CP	.1580				į	100	.9600	. 0442 - 0242 - 1056 - 1619	2200 1906 1597 2899	.59594	85 19	. 1580	,,,,,,,
A - 0A148 (MACH .	NT VARIABLE	.1120	2376	- 1524 - 0083 - 0401 - 2494	.3303		.3236	.9210	1019 0913 0840 1458	- 1885 - 1198 - 0362 - 0999	•	VARIABLE	.1120	- 2174 - 2241 - 1755 - 0703 - 0589
PRESSURE DATA	AMES 11-073(0A148)	-3.877 M	DEPENDENT	.0700	- 1858 - 2415 - 2530	0560 .0590 .1252 .2600	.3312		.3181	.8790	1414 1700 0110 0615	1597 1597 1077	15t MACH	DEPENDENT		1916 2314 2384 1120 0317 0097
	APE	2) = -3		.0450	1690 1899	. 1343 . 1343 . 3702	199		.3852	.8210	1962 2062 .1328 .1685 .2302	.4393 .4170 .4186		_	.0460	1637 1875 1863 0563 0956
TABULATED		BETA (2	AGE	. 0230	1727 1657 .0210	.2120 .3441 .4385 .5358	.5467		.4828	.7790	1545 1665 .0354 .0906	2859 2895 2895 4125 4125 4125 4125 4125 4125 4125 412	BETA (3)	Fi.	. 0230	1797 1634 0190 .1273 .2263 .3127 .4248
		-4.010 B	1) ORBITER FUSELAGE	.0080	. 1810	.6197			.7381	.7290	1193 0270 .0184	.1180		R FUSELAGE	.0090	9861
FEB 76		•		.0000	1.0572				1.0572	.6520	1023 1747 0039 .0258	.0534 .0534 .0157 .0353	-3.994	-1 1 ORBITER	.0000	1.0675
DATE 10 FE		ALPHA (1)	SECTION (X/LB	PM1 .000 20.000 40.000	55.000 70.000 90.000 120.000	150.000	162.000 165.000 169.000 174.000	180.008	X/LB	PH1 . 900 70.000 90.000 105.000	127.000 135.000 150.000 155.000 165.000	ALPHA (1)	SECTION (X/LB	PMI - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000

DATE 10 FEB	65 75		TABLEATED PRE	ED PRESS	SSUPE DATA		(AFES	- 0A148 (AKES 11-073-1	_					PAGE	2
				AMES	ES 11-073(0A148)		140A/B/C	-140A/B/C/R ORB FUSELAGE	USELAGE			(XEBB06)	9		
ALPHA (1)	-3.994		BETA (3)		<u>\$</u>										
SECTION (1) ORBITER FUSELAGE	AGE		DEPENDENT VARIABLE	T VARIAB	LE CP			,					į
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	. 1580	.1660	.1770	040	5 5	3010	13.00 10.00	22.	
PH1 140.000 150.000			258 ₄ .	.3762	2849	£764		0±1±.	.0350	- 3498 - 4761	2489	0923	0240	.0170	
182.000 165.000								. 5255	.0961	9413	1952	0914	0221	0610.	
174.000	1.0675	.7330	1964	1104.	.3260	.3315	.682	5112	•	-1.1264	-, 1906	0842	0224	.0173	
X/LB	.6520	.7290	.7790	.8210	.8790	.8210	.9600	0666.	1.0180	1.0460					
PHi .000 70.000 90.000	1001 153+ 0298 070	1225 0570 0120	- 1573 - 1625 - 0024 - 0517	- 2044 - 2029 - 0817 - 0999	1479 i761 0586 1279	1094 1030 0648 1357	.0445 0101 131: 2370	á	. 2334 . 2334	. 0308					
110.000 120.000 135.000 150.000	40. 40. 60. 60. 60. 60.	5640. 6401.	164. 154. 174. 174. 174.	. 45076 . 4583 . 4914	3372 2506 1822 0310	2775 1859 1734	2855 2399 2082 2973						·		
ALPHA (1	.4(1	-4.001	W		4.235 HJ	HACH .	.59594	a	- 29	593.39	۵.	- 2387.0	D RN/L		4.839 6
8	(1)08811	1) ORBITER FUSELAGE	LAGE		DEPENDENT	IT VARIABLE	BLE CP	CER	170	0.00	930	.3010	3780	0.C\$*.	.57v0
x/L8		0800.	.0230	.0460			3	3				276.4		-,0407	0637
20.000	1.0461	. 1619		- 1690 - 1808		2010		1693		1791	1204	0702	0460	0513	0496
40.000 75.000 70.000		.2868	. 0349 0349 1787		- 1590 - 1111 - 1020	0.01.1. 0.01.2.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0		2289 2325 2724	٠	2393 2913 4384 4478	2429 2976 3380	0843 1187 2936	0039 0199 0785	.0311	
120.030 140.030 150.030			1114	3168		.2067		£964.		15.00 to 10.00 2185	1127	0508	0128		
151.000 151.000 157.000									0197	9160	2047	-1106	B++0	1100	
15.0.000 15.0.000 17.1.000							.617	.4637					REP	REPRODUCIBIL	PAGE IS

(XEBB06)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

4.235

BETA (4) =

ALPHA (1) = -4.001

DATE 10 FEB 76

	57.0					4.839 6		02/6	8779	0349						
	.4970	6400						0794	0578	0415		0629	0555	0488		
	3780	0316				7.85		3780	•	0367	0331		0882	- 1110		
	.3010	0953		•		2387.0		3010		- 0528	0976 1373		- 8741	- <u>18</u>	-	
,	0180	- 1944				•		2510	-	- 1138	.25# .3217		- 2362	2315 -	٠	
	.2040	-1.1263	1.0460	.0141		593.39		.2040	1548	-	12 10 10 10 10 10 10 10 10 10 10 10 10 10	•	993+	-1.1557	1.0460	2000
	. 1770	·	1.0180	15%.		263		.1770	И	•		2827	•	Ť	1.0180	3382
	. 1660	.4897	0666.		-, 3568 -, 3144	3		.1660	1777	1753 1913 2260		.1564	.3750	.3952	0666	
BLE CP	.1580		.9600	0468 0072 1435 1966	3485 2827 2506 2963	.59594	RE CP	. 1580					8	910	.9600	. 9480 - 0094
DEPENDENT VARIABLE CP	.1120	.3223	.9210	1000 0984 0928 1611	3591 2661 2738	MACH	NT VARIABLE	.1120		2.00 1.00.	1892 2292 1027	.1054		.2793	.9210	1035
DEPENDE	.0700	.3090	.8790	1463 1778 1020 1676 3196	4511 3638 2886 1447	. 308 M	DEPENDENT	.0700	2262	26.55	- 1943	11711.		.E854	.8790	1483
	.0460	.3853	.8210	2025 1928 .0398 .0422	.0897 .3028 .4756			.0460	1856	2104 1691	1511	.2272		.3356	.8216	2064
AGE	. 0230	.4911	.7790	1526 1511 0417 . 0655	. 1730 . 1730 . 1999 . 2126	BETA (5)	I GE	. 0230	1984	1281 0487	.0520 .0520 .1621	.2386		0044	.7790	1606
ER FUSEL	. 0080	.7009	.7290	1268 0877 0431	0114 0649 		CR FUSEL	.0080	. 1435		.1080			.6337	.7290	1302
SECTION (1) ORBITER FUSELAGE	.0000	1.0461	.6520	1045 1311 0439 0116	0094 .0245 .0293	= -4.013	1) 0881 16	.0000	1.0005					1.0005	.6520	1130
SECTION	X/LB	PH1 180.000	X/LB	PH: .000 .000 70.000 90.000 105.000	135.000 135.000 150.000 165.000	ALPHA (13	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 .000.	46.000 55.000	70.000 120.000 120.000	150.000	169.00 169.00 169.00 169.00	180.000	X/LB	PHI .000 .000

11-073-
AMES
04148
E DATA
PRESSURE
TABULATED

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE DATE 10 FEB 76

BETA (5)

-4.013

ALPHA (1) =

Z .9990 1.0180 1.0460 - 3236 - 3236 .9600 -. 1441 -. 2047 DEPENDENT VARIABLE CP .9210 -.1087 -.1865 -.2530 -. 4543 -. 3602 -. 3906 -. 3723 -.1372 -.2095 -.3574 .8790 -.1078 .1583 .4512 -.0179. -.0179. .8210 -.0814 -.0562 -.0093 .730 SECTION (1) ORBITER FUSELAGE -.1117 -.0633 -.0105 .7290 91.0 .6520 -.0413 -.0517 -.0347 70.000 90.000 110.000 135.000 150.000 150.000 165.000

2385.7 3010 . 0150 .2040 583.84 1770 .1660 ø .59630 DEPENDENT VARIABLE CP MACH -7.929 SECTION (1) ORBITER FUSELAGE 0000. MEPHA (2)

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-. G-86

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- 1158 - 1471 - 2056 - 0880 - 0914 - 1526 - 1729 - 2678

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57.0 -.0122 -. 0222 F. 4.8179 . 0203 6200 6200 **5** -.0400 -.0024 -.027 -.0234 -.0256 .3780 -.03!4 -.0446 -.0520 - 9549 -.0565 2385.7 3010 -.0531 -.0616 -.0587 -.0882 -.2559 -.1315 . 1260 -.1330 0.52 -. 0803 -.1107 -.1778 -.2087 -.2530 -. 476 -.2576 .2040 . - 1054 - 1228 - 1664 - 1389 - 1389 - 2361 - 2588 - 3333 -1.3159 . 1073 5749. -1.0931 1.0460 583.8 1730 . 1200 1.0180 .3653 .2877 .1660 -.1234 -.1466 -.1823 -.0920 -.0712 -.0835 0666. 3975 -. 94.6 -. 9892.-.4641 .5011 Ø -.2866 .59630 .1580 .6368 .9600 .0554 -.0246 -.1027 -.1640 -.2075 -.2063 -.1842 -.2861 DEPENDENT VARIABLE CP .1267 -.0377 -.1613 -.1308 -.0281 .0505 .0721 . 1120 .2513 .9210 -.0916 -.0790 -.0870 -.1467 - 1843 - 1457 - 1250 - 1291 .2391 MACH .0700 - 1079 - 1462 - 1172 - 0463 - 1046 - 1343 - 1343 -.1548 -.1567 -.0173 -.0679 -.1539 .2325 .2113 -.2344 -.2036 -.1724 -.0255 .8790 -3.896 -.0690 -.0731 -.0405 -.1187 -.1879 -.2366 -.3189 .2593 .0460 -.1681 -.1695 .1243 .1589 .2359 .3122 .8210 ing. .3894 .3894 .3050 .3693 BETA (2) = 1774 .0230 -.0275 -.0007 -.1791 -.3368 -.3368 -.4489 .4339 -.1119 -.0117 .050* .3607 139 SECTION (1) ORBITER FUSELAGE .0089 .0080 .3662 .6055 5996 7290 -.1131 .0687 .0610 -.0734 0224 -.044 -.0480 . 0000 1.0792 -.0409 -.0832 -.1148 -.0669 -.0396 -.0033 -.0012 -.0076 1.0792 .6520 ALPHA (2) PH1 165.000 180.000 20.000 40.000 55.000 70.000 120.000 150.000 151.000 157.000 174.000 .000 76.000 76.000 110.030 120.030 133.000 165.000 186.000 XLE

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		593.84		.2040	.0998	140	.3271 .3504	4082 5635	-1.0839	-1.3016	1.0460	.0317		593.84		.2040	1070	1411	3985 3985
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SURE DATA		.147 M	DEPENDENT	.0700	1016	- 1308		.2052		. 2211	.8790	1203 1572 0660 1321	3127 2696 2222 0721	4.214 R	DEPENDENT	.0700	1146	1319	0789 0775 0633 .0208
TABULATED PRESSURE DATA	AMES	•		.0460	0603	- 0499 - 0499	2.589. 4.089. 5.49. 5.49.	.2893		.2958	.8210	1628 1570 .0708 .0897	.3575 .3575 .4189			.0460	0660	0789	0135 0135 .0057
TABULA		BETA (3)	NGE	.0230	0299		88 K K K K K K K K K K K K K K K K K K	3954		.3890	.7790	1123 1085 0451 .0196	. 1556 2165 2260 1719 1719	BETA (4)	AGE	.0230	10 A	0250	
		.035 84	1) ORBITER FUSELAGE	.0080	. 3707		42G4			.5992	.7290	0702 1331 0755	. 0146 . 0669	.050 BI	IIC SITER FUSELAGE	.0090	. 2 461		. 2848
37.6		•	11088118	0000	1.0889					1.0889	.6520	0453 0681 1356 0846	0252- 0102 01038		116 2011	.0000	1.0682		
DATE 10 FEB 76		ALPHA (2)	SECTION (X/LB	PH1 . 000	£99	25.288 20.000 20.000 20.000	150.000	151.000 162.000	169.000 174.000 180.000	X/LB	PHI .000 70.000 90.000	120.000 135.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	000.	\$0.000 \$0.000	95.000 70.009 96.000 120.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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	0.00	4838	-1.0940	-1.2897	6601	.010.				593.84		.2040	1218	1525			6869	-1.1071
	1770	- 1385	085. -	6	.3683	.2357				. 593		1770						. 2360 . 2360
	. 1660	. 2615	.4086	4252 1999			3482 2913			a		.1660	1401	- 1569	¥.	2852	123	35.
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PEDENDENT WAS A PARTY	.1120	. 1543		(\$\frac{9}{2}\)	0892		3405	2753	2994 -	MACH .	VT VARIABLE	.1120	1579	- 1446	1538	071	.0623	
	.0700	. 1500		.8790 .8790	1228	- : 079 - : 1843 - : 3092	9464	3738	1895	8.269 M	DEPENDENT	.0700	1397	1565	1512	0996	.0574	
	.0460	.2340		01 <i>73</i> : 0128:	1662		102	.3698	.3978			.0460	0813	1186 10f1	11 <i>.</i> 2	0100	. 1522	
V	.0230	. 1885 1885		3746.	1176	0823 0281	.0643		.2038	BETA (5)	AGE	.0230	0490	0226 .0150	.0416 .0759	00 £1.	.2200	
TER FUSE	.0800			.7290	0778	1597	0318	1750.	.0636	.045	DORBITER FUSELAGE	.0080	. X246		. 1006			
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				. 20±0	-1.3106	1.0460	. 038		593.13		.2040	0742	.0903	0346 0773 1439	5633	-1.2789	-1.4900	1.0460	. 1167 . 0649
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- 0A14B			I VARIABLE	.1120	1961	.9210	0990 0927 1242 2078	4351 3622 4020 4086	MACH	IT VARIABLE	.1120		-, 1075	. 1130 . 1582 . 1697	1888		Ę.	.9210	0756
SSURE DATA	ES 11-073(0A148)	697	DEPENDENT	.0700	.1651	.8790	1287 1621 1504 2298	727 116 917 576	.932 MA	DEPENDENT	.0700	0338	0538	. 2263 . 2390	1468		.0916	.8790	09#
D PRESSU	AMES	8.2 69	_	.0460	.2232	.8210	1739 1556 0237 0245	முற்ச (-3116		.0460	7400	03.0	3863 375 379 379 379	.2118.		.1353	.8210	1242 1213
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3 5		.043	110RBITER FUSELAGE	0000.	1.0151	.6520	0514 0440 1546 1036	0688 0*92 0543	0617 = 3.911	(1) ORBITER FUSELAGE	.0000	i	1.0304				1.036*	.6520	.0119
DATE 10 FEB 76		ALPHA (2) .	ž		PH1			135.000 135.000 135.000 150.000 165.000	=	7	X/LB	£	20.000	10.000 70.000 90.000	120.000	151.000	159.000 174.000	X/16	1HG 0000.

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137.0 0380 Page 0/E4. -.0218 -.0276 -.1031 .020 .0332 778 19.9. 18.9. 3780 -.0031 THIO. (XEBB06) 2385.8 -.0835 -.136 -.2765 30.00 -.0167 .0012 - 1840 - 2152 - 3066 -. 64:16 8 -. 945B -.0622 -.0704 -.0813 -.0546 -.1466 -.2234 -.2899 -.4028 . 2040 5 593.13 AMES 11-073(0A148) -140A/B/C/R OR8 FUSELAGE .9990 1.0180 178 -. 3262 -. 2596 -.0738 -.0759 -.0765 -.0353 -.0401 .0703 . 1660 -.1645 -.1988 -.1719 -.2794 -.0627 -.1371 -.1813 .9600 . 1580 . 59594 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0252 -.0252 .0447 .0925 .1760 .9210 .0339 -.0403 -.0905 -.1346 -.1287 -.1080 -.0574 .1120 MACH -.1788 -.1885 -.2097 -.1008 .8790 -.0175 -.0355 .0355 .0353 .1323 .1311 .1464 .0700 -3.897 -7.932 .5193 .3707 .1279 .8210 .1773 .2293 .3736 . 1869 .0348 .0405 .0987 .0987 .2218 .2518 .2535 .0460 BETA (2) -. 85.9. 85.0. 87.0. 87.0. . 1360 . 1924 . 1882 . 1506 **190** .0230 .1657 .3175 .4020 .4184 .4298 BETA SECTION (1) ORBITER FUSELAGE I 11 ORBITER FUSELAGE -.0729 ...1411 -.0832 .7290 .0080 -. 0092 -.0102 .5735 .5277 3.915 3.911 6520 -. 1885 -. 1363 -.0978 -.0760 -.0746 .0000 -.1868 1.0726 ALPHA (3) ALPHA (3) 70.000 90.000 105.000 110.000 135.000 155.000 165.000 SECTION 26.000 26.000 27.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 X/LB

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AMES 11-073(QA148) -140A/B/C/R ORB FUSELAGE

.4970 Z 3780 2385.8 .3010 .250 ۵ .2040 .9990 1.0130 1.0450 593.13 ø .9600 .59594 -.2735 DEPENDENT VARIABLE CP DEPLINDENT VARIABLE CP .3210 .150 MACH . -. 1484 -.0092 .8790 .8210 308 . BETA (2) BETA (3) .7790 . 1935 7171. SECTION I 1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0342 .7290 3.915 3.912 ..0373 .6520 ALPHA (3) = ALPHA (3) PH1 165.000 180.000

- 0555 - 0656 - 0656 - 1438 - 2060 - 3719 - 4617 - 6392 -1.2028 -1.4225 .1770 - 0693 - 0715 - 0806 - 0950 - 1127 - 1257 .1666 .3342 .3839 1114. . 1580 .5699 .1120 -.0374 -.0374 -.0187 .0014 .0050 . 1823 1944 .0700 ...0141 ...0417 .0100 .0396 .0504 .1316 .1157 .0460 .0468 .0468 .0673 .1186 .1156 .1759 .1957 .17971 . 0230 1416 1416 2447 2921 2973 3106 2923 .2664 .0080 .53+0 .4255 .4583 .0000 1.079 1.0794

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-.2386 -.2390 -.2270 -.2614 .0680 .0040 -.1247 -.1798 -.0757 -.0663 -.0613 -.1310 -.2471 -.2116 -.2129 -.5755 -.3073 -.2905 -.2483 -.1119 -.0981 -.1361 -.0708 -.1315 -.1281 -.1136 .0606 .0781 .0987 .2484 .3639 1941 1958 1948 1799 -.0538 -.0538 -.0849 -.0119 -.0122 -.2080 .0366 .9478 -. 0206 .0220 .0115 -.2448 -.1692 -.0213 -.0213 -.0211 .6520 -.0892 46.000 105.000 115.000 115.000 115.000 115.000 Ē X/LB

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	908	RAV.		.3780	.8200	6000.	0739 0646 0600	0591	0634	0713			4	FRAZ		.3780	0076	0307	0865 0649 0562	
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	FUSELAGE	* 59		.1770				- 171B	1.1		1.0180	#5#. 6585.		- 28		.1770				
AMES 11-073-1	88	O		. 1660	0717	0952	- 1733 - 1959 - 1263	.2346	3542	.3597	. 9990	i K	- 2868	o		.1660	0839	1321	7.000 7.000 7.000 7.000 7.000	
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A - 0A148	(04148)	MACH	NT VARIABLE	.1120		0691	- 0678 - 0750 - 0309	.1100		.1670	.9210	0754 0684 1068 1668	3159 2797 2994 3152	MACH	NT VARIABLE	.1120		1144		
TABULATED PRESSURE DATA	AMES 11-073(0A148)	4.204 M	DEPENDENT	.0700	0288	0452	- 0521 - 0457 - 0019	.C744		. 1256	.8790	0974 1396 1196 1934	4150 3915 3573 2665,	8.248 M	DEPENDENT	.0700	0.0430	0963	1393 1379 0918	
TED PRES	AME	*		.0460	.039			1491		1740	.8210	1251 1135 .0045 .0001	.3197 .3064 .2814			.0460	9219	20.0	0805	
TABULA		BETA (4)	AGE	.0230	0110	1581	1955 1955 1855	.2352		. 5266	.7790	0880 0535 1247 0554	.0502 .1374 .1596 .1664	BETA (5)	AGE	. 0230	.0931	. 0578 6730	7500 7500 7604 7604	
		3.921 8	ER FUSELAGE	.0080	.5152		1			8424°	.7290	0152 2339 1556	0602 .0143	3.925 B	ER FUSELAGE	.0080	.4857		.0733	
8 76 8 76			1) ORBITER	.0000	1.0584					1.0584	.6520	.0210 .0244 2588 1737	0834 0324 0307		13 ORBITER	.0000	1.0053			
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 000	10.0g	26.08 20.08 20.09 20.09	150.000 150.000	165.000 165.000 169.000	174.000 180.000	X/LB	PH1 -000 70.000 99.000	125.000 150.000 150.000	ALPHA (3)	SECTION (X/LB	PH1 .000	1000 1000 1000 1000 1000 1000 1000 100	70.000 90.000 120.000	

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	306)			.3780	0825	0969	1116		. *		FRVL		.3780	.0375		1634	· 1961
	(XEBB08)			.3010	1549	~.1705	1844				2385.7		.3010	9900.		2504	. 20 S.
				80.00	3182	2902	3063				•		.8310	0152		5555	3775
				.2040	5858 7426	-1.2141	-1.4319	1.0460	.0172		593.49		.2040	0229	2000 2000 240 240 240	4006	.4393
<u>.</u>	FUTELAGE	,		.1770	. 3207		•	1.0180	. 2529		- 583		0771.				0203
0A148 (AMES 11-073-1				.1660	0860.	.2825	.2592	.9990		3193 2671	•		.1660	0241 0196	0620 0428 0371 1055	.4268	. 3968
B (AMES	-140A/B/C/R ORB		PLE CP	.1580			.4567	.9600	.0589 .0019 .1347 .2196	3462 3271 3260 3030	.59612	LE CP	.1580				5619
			DEPENDENT VARIABLE	.1120	.0267		.1261	.9210	0808 0723 1221 2101	3987 3601 4237 4267	MACH	T VARIABLE	.1120	0031	1528 1581 1524 1419	8660.	
PRESSURE DATA	AMES 11-073(0A148)	8.248	DEPENDE	.0700	.0031		.0739	.8790		5256 5073 5140 4215	-7.908 · MA	DEPENDENT	.0700	.0625 .0558	.2335 .2235 .1251	9±00	
	AFE			.0460	.0821		.1294	.8210		0450 .0875 .2705 .2281			.0460	. 1206 . 1581 . 2566	.3528 .3373 .3113 .2092	.0937	
TABLALATED		BETA (5)	AGE	. 0230	1434		.2119	.7790	0760 0601 1654 0986	0005 .0756 .0883 .0934	BETA (1)	IGE	.0230	.384 .3124	.5342 .5319 .4818 .3566	. 1999	
		3.925 8	110RBITER FUSELAGE	.0080			.3537	.7290	0202 2540 1786	0967 0310 0219		R FUSELAGE	.0080	.6482	5 .		
19 76		u		. 0000			1.0053	.6520	. 2500. 10.39 17.59.	0964 0702 0712 0851	7.957	1) ORBITER	. 0000	1.0007			
DATE 10 FEB		* PHA (3)	SECTION (X/LB	PHI 140.000 150.000 151.000	65.000 169.000	180.000	X/LB	PHI - 000 -	120.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 .000 20.000 40.000	55.000 70.009 90.000 120.000	150.030	162.000 173.000 174.000

(XE8806)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

BETA (1) = -7.908

7.957

ALPHA (4) =

DATE 10 FEB 76

SECTION (11 ORBITER FUSELAGE	PUSELA	႘		DEPENDER	DEPENDENT VARIABLE	AE CP								
K/LB	0000.	.0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.20%0	.2510	.3010	.3780	.4970	5740
PHI 180.000	1.0007	-58 2.	. 0940	8**0.	.0072	.0650		Ē	•	-1.7758	3102	1770	1108	0998	
K/LB	.6520	.7290	.7790	.8210	.8790	.9210	9600	9880	1.0180	1.0460					
PHI - 000 - 00		. 0426	0056 0319 0319 0186 .0186 .1382 .1382 .1307 .1307	0744 0650 1726 2277 3927 3306 0573	- 0580 - 0992 - 0993 - 0994 - 0998 - 2145 - 2145 - 2771	0508 0103 0428 0286 0793 1536		3189 27£2	. 34.86 . 34.86	. 1269					
NLPHA (4) =	- 7.966	35 BETA	TA (2)		-3.891 MA	MACH	.59612	G	s 593.49		•	2385.7	FBV/L	•	4.8178
SECTION ()	1) JRBITER FUSELAGE	FUSELA	ĸ		DEPENDEN	DEPENDENT VARIABLE	LE CP								
C/LB	.0000	.0080	.0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	5 5	.3010	.3780	0.4970	.5740
	1.0307	.685	2695. 0415.	. 1506	.0865	64	•	7.0077	•	-	0014	6920	. 0499	.0883	. 0960
400.000 000.000 000.000			4372	. 2555 2555 2555 2555 2555 2555 2555 255	356	0736		.0173	, ,	0000	.0159	.0538	.0717	**B0	.1312
20.000 170.000 170.000		5242	3076	. 2157 . 2157 . 1690	1341.	.0978 .0878 .0878	•	0.03.0			2334 3571	- 1195 - 1466 - 3624	0013	0596 0761 215.	
155.000			. 1992	. 1093	.0502	.1064		.3843	0600	-	4787	2029	1158	0991	
162.000 165.000 169.000							i	.3924		1.4106	3305	1835	0984	079E	
	1.0307	, 200 i	<u>.</u>	.0803	.0425	.1007	io io	.2760	7	.6161	2828	1576	0772	0662	
(/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666	1.0180	1.0460					
PH1 .009 .00.000	.0938 .0962	. 0473	0162	0721 0550	0555 0968	0473 0164	.0873		.4388 .3295	. 1326					

PAGE 91			. ,,			•	RN/L - 4.8178		0.4570 .5740		.0677 . 1294	0879- 0900 1338	0680	0490	0507		
	(XE8808)								3780	.03%	.0473	10%0	0795	0742	0678		
	EXC						. 2385.7		3010	.0306	.0230	1523 1655 3192	1729	1540	1427		•
							0.		.2510	8400.	0210	2523 2731 3589	4096	2996	2681		
				1.0460			593.49		0408.	0022	0394 0394	2037 2938 3951	5193 7325	-1.3444	-1.5283	1.0460	.0488
-1 -	-140A/B/C/R ORB FUSELAGE			1.0180			•		.1770				0890		•	1.0180	.3066
3 11-073	C/R ORB			3666 .		3150 8591	o		.1660	0010	.9085	0993 1072 0224	.3036	3558	子15.	.9990	
- 0A148 (AMES 11-073-1			ABLE CP	.9600	0744 1496 2017	1944 2305 2023 2685	.59612	BLE CP	. 1580						7616.	.9600	. 1115
	AMES 11-073(0A148)		ENT VARIABLE	.9210	.0014 0695 1311	1910 1885 1689 1480	MACH	NT VARIABLE	.1120	ָבָּ ני	0384	00.38 07.07 07.37	.0919		5	.9210	- 0455 - 0354 - 0510
PRESSURE DATA	S 11-07	-3.891	DEPENDENT	.8790	. 0454	2581 2689 2497 0385	H E41.	DEPENDENT	.0700	5887. 5350	0.00	0503	.0345		1640.	.8790	0571 1036 0648
	AME	2) = -3		.8210	.1810 .1615 .2769	.2164 .1556 .1153	•		.0460	1608	1590	. 1312 . 1187 . 1036	9960.		. 0880	.8210	0674 0573 0577
TABULATED		BETA (2	AGE	.7790	0914 0201 .0338	1554 1921 1922 1633	BETA (3)	AGE	.0230	.2780 7885	3341	1285. 1285. 7285.	.1782		.1403	.7790	0030 .0093 1227
		7.966 B	ER FUSELAGE	.7290	2501	0827 .0013	7.972 BB	1) ORBITER FUSELAGE	.0080	2069		3696			.2887	.7290	
EB 76		tt	1) ORBITER	.6520	3495	0998 0835 0642	7.9		.0000	1.0385		e .			i.0385	.6520	. 3697 3697
DATE 10 FEB		ALPHA (4)	SECTION (X/LB	7H1 70.090 05.090 05.090	150.000 150.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 20.000 20.000	55.500	26.083 18.080 18.080 18.080	150.000	165.000 169.000	180.000	X/LB	PH1 .000 .40.000 70.000

8					g .		į	20.	.0963	3711.							
PAGE					•	•		0/64.	1999	.0466	0939 0976 0853	0482	0508	0621			
į			·		į			.3780	.057	.0167	1246 1009	0661	0673	0745			
						2385.7		900	.019 .	0183	1751	- 1504	- 140t	- 1485			
•					ı	•		55	.0025	0785	2362 3562	3519	2784	2895			
				1.0460				. 2040	0057	0334		5590	-1.31%	-1.5234	1.0460	.0353	
	JEELAGE			1.0180		= 593.49		0771					100.	•	1.0180	. 2862 . 2862	
11-073-1	-140A/B/C/R ORB FUSELADE			0666.		ø		.1680	0135	0330 0561	1538 1653 1803	.2025		1993.	0666		#12.
(AMES	146A/B/C		E CP	0096.	2451	.59612	LE CP	. 1580						.4623	.9600	. 2030 - 2030 - 2030	- 2829 - 2824 - 2738 - 2780
- 0A148			T VARIAB	92.0	2359	3	T VARIAB	.1120		0123	0814 0609 0609	.0529		1000	9.00	0540 0479 1107 1766	3093 2812 3098 3350
JRE DATA	WES 11-073(0A148)	. 143	DEPENDENT VARIABLE	.8790	1338	4.201 · MACH	DEPENDENT VARIABLE	.0700	.0708		- 0190 - 0530 - 0422	.0017		000	.8790	0622 1118 1255 2034	3961 3980 3964 2648
TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1	AMES		_	.8210	5		_	.0460			9229 5779 5770 5770 5770	.0665			.8210	0784 0632 0107 0197	.79347 .7994 .7994
TABULATI		TA (3)	띯	.7790	.1510	BETA (4)	સુ	.0230	25	i Maria	1686 1686 1646	.1273			. 1790	0011 0097 0816 0816	. 1140 . 1315 . 1315 . 1395
		72 BETA	FUSELA	.7290	9210.		R FUSELA	.0380	1123		.2047			į	12.09	.3110 3110	1094 0094 .0028
85		- 7.972	1) ORBITER FUSELAGE	.6520	0620	1.97!	110RBITER FUSELAGE	.0000	5	1010.1				1	.6520	. 2680	1464 0616 0628 0743
DATE 10 FEB 76		ALPHA (4)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (4)	SECTION (X/LB	PH 1	20.000	55.000 70.000 90.000	140.000	151.230		180.000 X/LB	711 .000 40 .000 70 .000 90 .000	110.000 120.000 135.000 156.000 165.000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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ŝ	į	4.8178	02/0	0870	.0920												3.8563		.5740	. 1583	.2226	
7 7 7 7			0.4970	1380.	. 0209	1129	0616	064	0880		1021			•			•		.4970	. I+13	.1677	1363
(VEDDUE)	9		.3780	2.5	0330	1352	0622	0677	0868		1230						PAY.		.3780	.0928	1521	1385
Jak	146.00		.3010	.00**	0852	1931	2381	1564	1610		1816						1908.1		.3010	.0672	.1339	. 1631
	•	•	9185	0073	1533	3012	3571	3183	2918	į	. 368						í.		93.0	.049	. 1028	17682205
	593.49	<u>}</u>	.2040	. 0263	1586	3017 3942	6135	7899	-1.2887			1.0460	.1165						. 2040 0402	.0409 0566		1731
FUSELAGE			. 1770					.3533		•		0180	.8743		٠		9.c/+ - +/0.eg		5//1:		•	• • •
-140A/B/C/R ORB	o		. 1660	0283		2253	B/03.	.0757	23.20	1980				3253		c	,	4991	8	.0765 0770	.130r .0753	
-140A/B	. 59612	BLE CP	.1580							.¥022	Š	0000	.0705 .0111 1563 1995		- 3258 - 3329 - 3039	01224	٥					
\$10A14B)	MACH .	INT VARIABLE	.1120	0436	0840	1264 1233 0564		500.		.0584	6100		0565 0565 1277 1928		3569 4138 4321		VARIAB			.0951	266.1	. 1518 .0475
AMES 11-073(0A148)	8.255	DEPENDENT	.0700	.0036	1274	1881	080	/603·		0149	8790		0660 1247 1619 2477		4913 5057 4222	172 MACH	DEPENDENT	.0700		. 1670 . 1835	9065.	. 2007 . 2007 . 0027
AME	53 = 8		.0460	.0887	0669 0669	0847 0534	1000			.0296	.8210		0797 0631 0720 0771		.3860 .1663 .1317	= -7.872	٥	.0460		295. 1895. 1895.		
	.	AGE	.0230	. 2351 . 1839	.0563 2563 2663 2663	.0430 .0539	.0510			.0998	.7790		0063 1908 1510 1510	- 0589	.0733 .0733 .0836 .1120		W	.0230		. 1981. 1987 1987		
	7.969	1) ORBITER FUSELAGE	.0080	.6327		¥10.				.1875	.7290		.3260 3260 2408	1392	0522	A 66ETA	FUSELAGE	.0080		108 /-		.5595
			. 0000	9634						£96.	.6520		.0817 3673 2673	- 1384	0895 0890 1148	. 12.008	1) ORBITER	0000	8			
•		SECTION C	8 E	20.000 40.000	55.000 70.000	90.000 120.000	150.000	152.000 152.000 153.000	159.000	180.000	X/LB	Ē	. 000 70.000 70.000 90.000 105.000		•	ALPHA (5) .	SECTION ()	X/LB		20.000 40.000	75.000 000.000	90.000 c0.000

DATE 10 FEB 76

		5740							3.8563		5740	.1698	.2131			
		.4970	2076	1637	1947		,				0764.	.1567	.1512	1223 1485 3635	- 1959	1093
	•	3780	2005	1582	1210				FRVL		.3780	3111.	.1239	1276 1501 3646	- 1881	.1168
		3010	2916	2450	1907				- 1908.1		.3010	. 189	.100%	1590 1892 4766	2347	1889
		.2510	6312	4130	3195				•	,	9189	. 1864 1844	.0562	2334 2631 4152	5236	3523
, 1		.2040	4854 7739	-1.5839	-2.0047	1.0460	1414		475.06		.2040	.0623	9259	1460 2347 3684	5219 7796	-1.5315
		.1770	.0276	0543		1.0180	.3563				.1770					
		. 1660	.3751	0140	.1132	.9990	= F	- 5820	a		. 1660	5170	0965	0320 0464 0112	.3460	. B.
	ABLE CP	.1500			\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	.9600	. 1005 . 0248 - 0412 - 1233	1883 2455 2044 2753	.47710	BLE CP	. 1580					.4969
	DEPENDENT VARIABLE	.1120	919.		.0015	.9210	0191 .0243 .0543 0218	1832 1991 1621 0814	MACH	NT VARIABLE	.1120	301	. 1576	.0593 .0595 .0378	.0332	
-7.872	DEPEND	.0700	067		0753	.8790	0112 0574 . 0550 0417	- 2459 - 2389 - 3384 - 0553	3.872 M	DEPENDENT	.0700	<u>•</u>	. 1903	1180	O449	
		.0460	0307		0458	.8210	0145 .0045 .1663 .2234 .3935	. 5321 . 2278 0601	2) = -3		.0460	.297. 2976	. 3359 . 2873	. 1706 . 1706 . 0659	.0001	
BETA (LAGE	. 0230	. 0426		0443	. 7790	. 0559 . 0849 . 0757 . 0041	. 0065 . 0429 . 0390 . 0390 . 0102	BETA (2	AGE	.0230	.4117	.5275 .4689	.3890 .3173 .1899	.0551	D- D-1101-100)
12.008	1) ORBITER FUSELAGE	.0080			. 1223	.7290		2206 0953 1188	12.030 B	110RBITER FUSELAGE	.0080	.8193		.4331	•	
	1100681	.0000			.9238	.6520	. 1512 . 1913 4587 3488	46%2 2062 1928 1685			0000	.9512				
ALPHA (5)	SECTION	X/L6	PHI 140.730 153.000 151.000	165.000 165.000 17.000	180.003	X/LB	PH: .000 70.000 99.000 105.000	170.000 135.000 150.000 165.300 183.000	ALPHA (5)	SECTION (X/LB	PH1 .000 .20.000	55.000 55.000	70.000 90.000 120.000	150.030	162.000 165.000 169.000 174.000

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8		5740					3.8563		5760	.1706							
PAGE		£970	0789				•		₩.	1585	<u>6</u>	1616 1577 2412	1052	0806	0699		
9		.3780	0818				RNA		.3780	112	.08%	1652 1668 2610	1063	0827	0722		
(XE8806)		.3010	1503				. 1908.1		.3010	.0809	.0456	2072 2144 4035	1915	1532	1432		
		93.0	2910				<u>.</u>		93.0	.0628	0132	2860 4083	4487	3209	2875		
. ,		.2040	-1.8306	1.0460	.0738		475.06		.2040	.0657	- 0118	1000 1000 1000 1000 1000	9/31	-1.4662	-1.7384	1.9460	. 0595
-1) FUSELAGE		.1770		1.0180	.3432		# 47E		.1770					. 1638	•	1.0163	.3229
		. 1660	.2120	0666	8 6 7	2676 2676	a		.1660	3116	0. 10. 0. 10.	- 1068 - 1166 - 0514	.2681	.2972	.2512	0666	
-1404/8/C/R 0RB	2	-		.9600	. 1086 . 0424 0656 1368 1923	2018 2383 2018 2491	.47710	LE CP	.1580						\$65 2.	.9600	. 1068
- 0A14 3A148)	•	.1120	.0380	.9210	0133 .0121 .0024 0638	2003 1987 1713 1371	MACH	IT VARIABLE	.1120		1002	8410. 8410. 8010.	1650.		.0455	.92:0	0288
PRESSURE DATA - 041: AMES 11-073(04148)	-3.872 nepsyner	.0700	0+01	.8790	0085 0614 0138 0453	2675 2634 1909 0268	.140 M	DEPENDENT	.0700	5061	. 1655 1.055 1.055		05%7		0368	.8790	0153 0742
O.	•	.0460	0121	.8210	0097 .0105 .0845 .1431	.1318 .2503 .4133			.0460	82/5	60. 30.	10. 10. 10. 10. 10.	6400 -		0073	.8210	0150
TABULATED	BETA (2)	. 0230	0080	.7790	. 0610 . 0859 . 1409 . 0615	.0827 .0751 .0558 .0588	BETA (3)	Œ	.0230	4158	, 586 1, 586	1989	.0319		.0047	.7790	.0602
		.0800	.1195	.7c.90	.1191 3305 2325	0804 0976 0231		R FUSELA	.0080	.8238		.2850			.1190	.7290	<u>6</u>
57. 50.	- 12.030	0000	.9512	.6520	. 1650 . 1919 4851 3600	3192 1895 1390	= 12.036	1) ORBITER FUSELAGE	.0000	9624					28	.6520	.1673
DATE 10 FEB 76	ALPHA (5)	X/LB	FH1 180.000	X/LB	74. 20.000 20.000 20.000 20.000	120.000 132.000 132.000 165.000 165.000	ALPHA (5)	SECTION (X/LB	PH1		85.98.95 99.98.99 99.99	150.000 150.000	162.000 165.000 169.000	174.000	X/LB	PHI .009 40.000

DATE 10 FEB 76

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

							0/ 0 *	. 155	.0815	- 191. - 16491.	0850	0721	4919			
					I RN/L		3780	. 1099	.0286	1902 1705 1686	0137	0730	0809			
					1908.1		.3010	.0737	0302	- 2258 - 3406	1670	1490	1545			
					•		33.0	. 0589	0988	3213 3193 3868	. 207.	2970	2978			
		1.0460			9.		.2040	.0536				-1.4037	-1.7427	1.0460	.0396	
		1.0180			- 475.06		0771					1882	•	1.0180	. 4843 . 3099	
		0666.	£	2623	a		.1660	.0592	0305 0305	- 1750 - 1750 - 1751		Š	.2357	0666		
	NE CP	.9600	1087 1652 2225	2590 2551 2588 2560	.47710	ALE CP	.1580						.4133	0096	. 1987 . 1429 - 1928 - 1928	2862 2736 2650
	DEPENDENT VARIABLE	.9210	0620 1214 1843		# WACH	DEPENDENT VARIABLE	.1120	į	9430 9430	0793 0769	1900		. B274	.9210	0224 0212 1705 1705	3193 2784 3193
. 140	DEPENDEN	.8790	0852 1472 2283	3017 3260 3055 1528	4.211 M	DEPENDEN	.0700	1766	. 1898 . 0824	0765 0593 0593	0763		0494	.8790	0193 0855 1439 2274 3468	4120 3076 +082
		.8210	.0328 .0528 .0958	.1760 .3204 .4893			.0460	.2629	28.35 1652	0133 0209 0209	0176		+.0190	.8210	0164 0082 0493 0694	. 3831 . 4482
BETA (3)	105	.7790	1869 0861 . 0052	.0534 .0399 .0994 .1310	BETA: (4)	¥	. 0230	4037	3637	.1874 .1102	.0137		.0063	.7790	. 624 . 0705 2145 1327	0525 .0744 .1211
	1) ORBITER FUSELAGE	.7290	3760 2699	1072	646.	(1) ORBITER FUSELAGE	.0080	.8030		.1150			.976¥	.7290		1614
= 12.036	1) ORBITE	.6520	5172 3740	2181 1520 0957 0800	=	1109611	.0000	. 9443					5446.	.6520	. 5100 5100 3782	2052
ALPHA (5)	SECTION (X/LB	PH1 70.000 90.000 105.000		ALPHA (5)	SECTION C	X/LB	PH1 .000	20.000 40.000	55.000 70.000 90.000	150.000	151.000 162.000 165.000	180.000	X/LB	PH1 40.000 70.000 90.000 105.000	110.000 120.000 125.000 150.000

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	(XEBBOS)							9		. 0659																
						:		ř	<u> </u>	8		1136	N.	<u>2156</u> 2646	- 15th	:	1595	9								
						0		Š	900	.0398		F. 61 19	134 M	5707	341B		3006	42.5								
				1 Other		17 A	3	2400		.0412	0281	3165	3146	5183 5191	6483 8220		-1.3685	7023		- 5	1331	.0209				
÷	FUSELAGE			1.0180		1		02271								3630	•	í	8		.4687	. 2926				
11-073-	-140A/B/C/R ORB FUSELAGE			0666°		G	ı	.1660		五	009t	2736	2302	1851	6+90		1863	1433						. 9485 8285		
PRESSURE DATA - OAI48 (AMES 11-073-1	-140A/B/		BLE CP		2686	.47710	BLE CP	-										3448	OCCUPANT OF THE PROPERTY OF TH		.0937	- 1628 - 1628	1934 2864		3367	3112
'A - 0A!'	310A14B)		DEPENDENT VARIABLE	.9210	3395	HACH	NT VARIABLE	.1120			0766	2305	1473	0737	0442			0085	0126				2003		3736	. 7844.
SSURE DAT	AMES 11-073(0A148)	4.211	DEPENDE	.8790	2721	8.275 H	DEPENDENT	.0700		1437	0107	- 1649	- 1736	- 1419	1157			0938	.8790		0223		- 4599	5412		· #64.
	AR			.8210	.4150		mar .	.0460		.2463	.0522	- 1699	. 109.	1061	0669			0482	.8210		0225	- 1351			4964	.1597
TABULATED		BETA (4)	AGE	.7790	.1090 .1032	BETA (5)	AGE	.0230		3813	. 1687	.0316	.0036	0158	0390			0206	0677.		.0566		1633	. 1251	0483 0483	
		11.949	1) ORBITER FUSELAGE	.7290	0331	12.026 B	1) ORBITER FUSELAGE	. 0080		.7644			0627					.0101	0621.		.1103	1914	2200	2391	0703	1265
8 76 8		•		.6520	0915 1048	.91		. 0000		1488.								1488.	.6520		1504	•		2309	- 1080	•
CATE 10 FEB 76		ALPHA (5)	SECTION !	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (X/LB	Ŧ	. 000 20.000	40.000	70.000	90.000	140.000	150.000 151.000	162.000	169.000	180.000	X/LB	Ē	.000 .00.00			120.000		180.090

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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AMES 11-073(0A148) -140A/B/C/R 098 FUSELAGE

DATA	SPORPX = 55.000 L-ELW = .000 MACH = .900	RN/L = 3.5834		3780 .9970	- L000.	.088404250461	•	. 5283 . 0912 . 5283 . 0624	06-0. 1253.	.0135 .0421	. 0076 . 0312		•						
PARAMETRIC D	000. 22.500 000.	- 1059.5		.3010	C2TO	12880	0181	0298 12*3	a. 6715 .e	6263 .0	0131		•						
	RUDDER = BOFLAP = R-ELVN =	Q.		0163.	•	53799		. 5835 - 5835 - 5835		97723	17761		•	5 ณ					
ł		599.81		.2040	90 S	144.00 144.00 100.00		. 2356		8379	9451	1.0460	Ş	1282	•				,
		110	u-	-67:						5872		1.0180	5	.2203					
	·	ď		. 1660	2295	1. WELT	1038	. 1805	.6561	87.17.	.6405	.9990							
	·	.89933	BLE CP	. 1580							.8283	.9600	900	.0311			1436	3369	
	999	MACH =	INT VARIABLE	.1120		. 2581	0580	3223	.4152		.4138	.9210			1252		1013		
	1.6800 IN. .0000 IN. 1.0000 IN.	3.876 H	DEPENDENT	.0700	-, 1581	2261	1205	327	. 3993	•	.3857	.8790	1306	2966	1046		0910-		
	375.	•		.0460	1186	1179	3050	.4530	.5023		- 1	.8210	E A	3444 . 1698	S S S S		9764.	5175	
XT.	XXIRP YYRY ZYRP	BETA (1)	AGE	. 0230	0840 0555	.3311	. 5483	.6382	.6418		.5828	.7790	24t5	2364 .0689	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	.2917	S. C. C. C. C. C. C. C. C. C. C. C. C. C.	3059	
REFERENCE DATA	S0.FT.	-4.068 B	ER FUSEL	.0080	14.		.7342	1			9446	.7290	1949	0370	.0156	.0950	1.	1324	
REFE	2690.0000 474.8000 936.0580		(!) CARBITER FUSELAGE	.0000	1.1939						1.1939	.6520	1377	88.50 98.50 98.50	740	.0663	.07.0	.0596	
	SREF = 1 LREF = BREF = SCALE =	ALPHA (1)	SECTION	X/LB	PH1 .000 20.000	55.000	90.000	120.000	150.000	165.900 169.900 169.900	180.000	X/LB	144 000 .	25 20 20 20 20 20 20 20 20 20 20 20 20 20	20.000 20.000 20.000 20.000	120.600	150.000	180.000	

8		3.383		5740	0137	3.963		Syte.	9259 8500.
PAGE		•		. 4970	8700. 2010. 8580. 1070. 1070. 85.40. 478. 478. 478.	•		0.64.	#E00. 5006. 4170. 9509.
	č o	ENT.		.3780	. 0413 . 0456 . 0342 . 0104 . 0204 . 0221	4		.3780	0351 0182 .0448 0165
	(XEBB07)	• 1059.E		.3010	0713 0494 0995 0399 0399	1059.5		.3010	0813 0541 1140 2514 2865
		•		.2510	1983 7573 7332 6789 6789 7722 7385			8 9 1 8 1	2063 3335 857* 851?
		599.81		.2040	2322 - 2323 - 3425 - 4515 - 4518 - 4518	599.81		.2040	2530 2735 3*11 3653 4094 5956
-	FUSELAGE	. 59		.1770	. 2281 3084 1.0190 2630 2630	196		1770	
OAI48 (AMES 11-073-1	7.R ORB 1	o		. 1660	2719. 2649. 2680. 260. 260. 2610	•		. 1660	- 2172 - 2307 - 2783 - 2735 - 2628 - 0684
S C AMES	-140A/B/C/R ORB	.89933	ALE CP	. 1580	818. \$18. \$18. \$18. \$18. \$1. \$1. \$1. \$1. \$1. \$1. \$1. \$1	3396 . 89933	LE CP	. 1580	
		MACH :	IT VARIABLE	.1120	. 1988 . 1988 . 1988 . 1988 . 1988 . 1988 . 1988 . 1988 . 1988 . 1988 . 1988 . 1988 . 1988	3 16%5 MACH •	IT VARIABLE	.1120	2284 2041 1696 0959 0895
PRESSURE DATA	APES 11-073(0A148)	. 153 M	DEPENDENT	.0700	2525. 2003. 2003. 2008. 2009. 20	0133 .237 PV	DEPENDENT	.0700	1658 2291 2163 1341 0729 0053
_	APE			.0460	8211. 9821. 9821. 9821. 982. 983. 98	3666		.0460	1036 1386 1432 0636 0053 .0526
TABULATED		BETA (2)	AGE	. 0230		. 3242 3242 BETA (3)	3	. 0230	0920 0877 .0305 .1407 .2232 .3006
			ER FUSELAGE	.0080	. 3546 . 5846 . 6257 . 0257 . 07770 . 1348	<u> </u>	110RBITER FUSELAGE	.0080	.3351
9 76		-4.048	1) ORB! TER	.0000	1.2021 1.2021 1523 1523 .0.35 .0.36	.0780 .0755 . * 4.057	1.098176	. 0000	1.1821
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	PH 70.000	165.000 180.000 ALPHA (1)	SECTION (X/LB	PHI 201000 401000 451000 1201000 1201000

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

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(XEBB07)

	9	0 K C							8		ę,	853	1620.					
									3.3860		•							
		65°	ET10.	.0235	. 0249				٠		25	. 8255	. v080	1202	600	. C.	52.	
		3780	009	0039	.0053				7/NE S		.3780	0219	0280	92.0	0003	.0208	0710.	
		3010	1595	0320	0234				• 1058.5		5 6	0836	0815	0821	- 2562	£15	<u>.</u>	
		Sig.	8619	- 7592	7748				•		50 50 50 50 50 50 50 50 50 50 50 50 50	1910	2979	67.00	6038	9819	8600	
		.2040	8121	8600	9472	1.0460	.2179 .0968		601.03		.2040	1991	- 2421	1807	, 12. 13.	-, 3695 -, 3695	9082	
		0771.	<u>\$</u>	<u>s</u>		1.0180	. 3828 . 329 . 329		- 60		170					8	g K	
		. 1660	.4798	.6340	.6612	0666.	8 2 4	. 3338	0		. 1660	1707	- 1945 - 225 - 255	- 1018 - 0476	1957	.6302	į	19/9·
	LE CP	.1580			.7559	.9600	.0805 .0442 1450 2034 2288	3044 2159 3363 3458	.90060	BLE CP	.1580							.786•
	DEPENDENT VARIABLE	.1120	.3011		.4116	.9210	1939 1444 1585 2413 2985	5797 4619 3981	MACH .	NT VARIABLE	.1120		1707	.0082 .0992	. 157 <u>9</u> 1465.	.3397		
.237	DEPENDEN	.0700	.2962		.3851	.6793	3186 3667 2773 3619	6433 4789 3385 1189	3.903 H	DEPENDENT	.0700	0586	1231	. 1602 . 1602	. 1926 . 2835	.3039		
# #		.0460	+63+		¥694.	.8210	3511 3353 .0528 .0650	.5373	£3		.0460	¥C00	0199 .0303	45.31 2618	3130	.3551		
BETA (3)	18	.0230	.5170		.5891	.7790	2409 2269 0066 .0538	. 2800 . 2800 . 2800 . 3096	BETA (1	AGE	.0230	.0632	. 1029 . 2858	.4287 1694.	. 57.87.	.5298		
	110RBITER FUSELAGE	.0800			.8130	.7290	2117 0565 0083	.1052	.010 BH	ER FUSELAGE	.0080	5116			.7196			
# 4.057	1.00RB1TE	.0000			1.1821	.6520	1370 1690 .0074 .0309	.0558 .0558 .0546 .0569	•	110RB1TER	0000	1.2107						
CPHA C C	SECTION (/LB	PH1 140.000 150.000	162.000 165.000	180.000	/LB	PHI .000 70.000 90.000	110.000 120.000 135.000 150.000 165.000	LPHA (2)	SECTION (NLB	PH1	20.000	55.000	90.000	150.000	151.000 162.000 165.000	163.00 <i>0</i> 174.000

101				57.6.					3.5880		.57v0	.0335	£ 5.						
PAGE				.4970	9600.				•		.4970	. 0323	.0202	.0386 .0386 .0237	.0200	1610.	9210.		
	52			.3780	.0163				FN/L		.3780	0120	0016	.0105 0131 0198	.0276	.0257	.0252		
	(XEBB07)			.3010	0695				1058.5		3010	- 0675	0554	1035 1393 2168	1694	0665	0497		
				0168.	8738						93.0	1995	2843	7297 7180 6815	9450	8617	P553		
				.2040	-1.0487	1.0460	. 2205 . 1484		601.03		.2040	1661	2201	. 3700 - 3700 - 4060	8285	9150	9336	1.0460	.2321 .138
_	USELAGE			.1770	•	1.0180	. 2918 . 2918		*		0771.				CUC			1.0180	.4189 .2837
11-073-1	AR ORB F			. 1660	.589₹	.9990	E	1 × 8% ·	ø		.1660	- 1546	1903	1430 1168 1052	.5547	.6¥96	.6306	.9990	
(AMES	-140A/B/C/R ORB FUSELAGE		LE CP	.1580		.9600	.1044 0014 0621 1138	1729 1589 1753	.90060	LE CP	.1580					1	8 51.	.9600	.0358
- 04148			IT VARIABLE	.1120	.3309	.9210	1073 1260 0059 0650	- 1805 - 1281 - 0998 - 0959	MACH .	DEPENDENT VARIABLE	.1120	į	- 1092	0340 . 0273 . 0555 . 7255	.3122		£76.	.9210	1049
PRESSURE DATA - DAIMB (AMES 11-073-1	AMES 11-073(0A148)	-3.903	DEPERIDENT	.0700	.2873	.8799	2852 3177 0535 1088	3167 2525 1771 .0562	.148 M	DEPENDE	.0700	0621	1095	. 1985 1985 1985 1985	.2726		.300.	.8790	2805
	AMES			.0450	.3610	.8210	2727 2591 .1473 .1812	.2911 .2551 .2983 .4004			.0460	.0060	0190 .0135	. 1507 . 2029 . 3084	.3707		3735	.8210	2612 2488
TABULATED		BETA (1)	ige ige	.0230	#65±.	.7790	1479 1301 .0015 .0658 .1406	787 7.55 7.65 7.65 7.65 7.65 7.65 7.65	BETA (2)	ige ige	.0230	.0752	.2343	.3304 .3814 .4303 .4830	.4919		÷18÷	.7790	1476
		.010 BE	R FUSELAGE	.0080	.7173	.7290	0787 2137 1242	016w 7470.	.014 BB	TR FUSELAGE	.0080	.5238		.5739			3117.	.7290	0801
3 76			1) ORBITER	0000	1.2107	.6520	0278 0856 1027	0591 0023 .0008		1) ORBITER	0000.	1.2164					1.2164	.5520	0247 0614
DATE 10 FEB 76		ALPHA (2)	SECTION C	X/LB	PH1 180.000	X/LB	74.1 40.000 70.000 90.000	170.900 135.000 150.000 165.000 180.000	ALPHA (2)	SECTION (хлгв	PHÌ .000	20.000 40.000	95.000 70.000 90.000 120.000	150.000	151.000 162.000 165.000	174.000 180.000	X/LB	PH? .009 40.000

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DATE 10 FEB 76

BETA (2) =

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ALPHA (2) =

			3.5880		.5740	.0211	. 0559							
			•		.4970	.0257	.0182	.0340 .0340	.0052	6900.	.0038			
			FN/L		.3780	0181	.0016	.0096 0360 0360	.0167	.0139	₹. 10.			
			1058.5		.3010	- 19831	0570	1042 1635 2448	1301	0743	07E7			
			•		.2510	1906	2809	7852 7869 7859	9707	***98**	8810			
	1.0460		601.03		.2040	1825	2121		7537	8747	-1.0592	1.0460	. 1983 . 1982	
	1.0180		= 601		0771.					. 1830 . 1830	•	1.0180	. 2865	
	0666	3548 2794	ø		. 1660	1592	9.17	181 ⁻ 181 ⁻ 1905 6 232	.4579	.5970	£19.	0666.		3069
ALE CP	.9600	0972 1495 1891 2452 2215	.90060	LE CP	.1580						317	.9600	.0450 .0450 1446 1885	2641 1939 2864
DEPENDENT VARIABLE CP	.9210	0656 1256 1711 2724 2183	MACH	DEPENDENT VARIABLE	.1120	Ş	1500	0410 0410 0298 -1290	.2567		.3380	.9210	1077 1521 1648 2441 3038	5982 5042 4591
DEPENDE	.8790	1590 2403 3837 4777 3642 2798	4.211 M	DEPENDEN	.0700	0795	- 1056	0465 0306 0192 . 0852	7615.		±982·	.8790	2741 2972 2896 5160	6366 5232 3901
	.8210	.0838 .1000 .1318 .2411 .4526 .4526			.0460	0026	0192 0192	. 0268 . 0463 . 0833	. 3225		.3576	.8210	2636 2483 .0265 .0381	.0948 .3343 .4190
AGE	.7790	0413 .0360 .1035 .1035 .2508 .2691 .2675	BETA (3)	JOE VOE	. 0230	.0593	. 1534 1534	. 2608 . 3095 . 3795	.4279		H728	.7790	1485 1360 0616 .0013	. 1201 . 2201 . 2425
ER FUSEL	. 7290	203+ 1331 0059 . 0514	.013 BE	1) ORBITER FUSELAGE	.0080	.5043		.¥088			.6833	.7290	0786 1866 1145	0215
11098116	.6520	1147 0645 0199 0110 .0117		1) ORBITE	. 0000	1.2005					1.2005	.6520	0310 0422 1151 0656	0229
SECTION (1) ORBITER FUSELAGE	X/LB	70.000 90.000 105.000 110.000 135.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	PH1 .000	40.000 10.000	55.000 70.000 90.000 120.000	140.000	151.000 162.000 165.000 169.000	171.000 180.000	X/LB	PHI -000 70.000 90.000 100.000	1.20.000 1.35.000 1.50.000

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ABULATED P	ABULATED P	TABULATED P .013 BETA (3) =	ABULATED P		(XE8807)		
TABULATED F	TABULATED F BETA (3) =	.013 BE	.013 BE	PRESSURE DATA - DAINB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R 098 FUSELAGE	4.211	DEBENDENT VABIABLE OF
	198. 1861 AS	.013 BE	.013 BE	TABULATED F		.A (3) =	ų

																				•	
			3.5882		.5740	.0831	.1037														
			•		.4970	.0581	.0550	0960	30.0	0606	0207	0091	0010								
			RAVL		.3780	.0030	<u>\$</u>		0319		. 8200.	. 0308	. 0426								
	•		1058.0		.3010	0697	+1+0		- 2085 -		8+2+	4230	2798								
					0	_	-				_										
			•		.85	1275	1722	3	6258	S	-1.0387	802÷	9378								
	1.0460		500.82		.2040	1048	1192	101	2033	2000 2000 2000 2000		9608	-1.0947	1.0460	Subs	1622					
	1.0180		- 60		.1770						3775	3081	•	1.0180	CT 72	3867					
	J666.		o		.1660	0929	- 1094 - 0914	9000	9220	. 2090	.6099	.6396	₩ŢŪ.	0666.				3473	857		
BLE CP	.9600	3356	.90070	BLE CP	. 1580								70.	.9600	1171	- 0005	0282	1359	- 1525	- 1895	3123
DEPENDENT VARIABLE	.9210	3999	MACH	DEPENDENT VARIABLE	.1120		0010	1397	1650	2002	.2750		.2648	.9210	120	1461	0478	-, 1962	1723	- 1253	1147
DEPENDE!	.8790	1765	3.905 H	DEPENDE	.0700	.0262	0671	2 6	1982	, KCD4	.2098		. 1946	.8790	- 2005	2171	02:00	1689	3166		. 0300
	.8210	4.296			.0460	.1043	1738	302	3145	. 3C.QE	.2917		.2616	.8210	1918		1526		.1593		.3458
IGE	.7790	.2481 .2643	BETA (1)	ĞE	.0230	.2181	1813.	522	B 25.	2	<u> </u>		.3355	.7790	-, 077B		0723 .0198		6 77. 6 48.		.1960
P FUSELA	. 7290	.0743		R FUSEL 4	.0080	.6714			.6916				.5740	.7290	2800		- 4624 - 3527		1333	0006	9110.
1.0RB1TE	.6520	.0010	= 3.998	(1) ORBITER FUSEL 4GE	.0000	1.202.1							1.202.1	.6520	7450		2148		1795	0830	1000 1000 1000
SECTION (1) ORBITER FUSELAGE	X/LB	PH1 135.000 160.000	ALPHA (3)	SECTION (X/LB	PH!	*0.000 *0.000	70.000	90.000	140.000	150.000	165.000 165.000 169.000	180.000	X/LB				110.000	135.000	150.000	

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<u>:</u>		3.5882	į		9360.	£												3.5882		.574(ero.	701.		
		•	•	5 7 7	.0699	.0590	.0131	.0133	6600.	.0129		.0080						•		970 10	.0623	25. 25.	0001 .0106 .0041	
				.3780	6410.	.0263	0267	. 0161	0640	94.38		.0400						RN/L		3780	.0077	.00 0	0326 0122 .0172	
	(XE8807)	1058.0	!	3010	0555	0402	9641		3840	224		1652						1058.0		.3010	0725	1041	1478 1862 2891	
		ı C		. 2510	1276	- 1844	5626		-1.0262	9358		9426						•		9159	1355	2156	7260 7970 7802	
				.204Q		1147	1963 1963	. 3793 8001 1001		9687		-1.0147	1.0460	. 1262				600.82		.2040	1183	1520	- 8622 - 4051 - 5209	
_	ORB FUSELAGE	= 600.92		0771.	·	•				2389		1	1.0180	.4570				• 600		.1770				
11-073-1		o		. 1660	0877	0946 0915	0728	0530	.5222		.6071	.5829	0666			2.2		0		. 1660	1003	- 1084	. 1338 . 1338 . 1538	
(VMES	-140A/B/C/R	.90070	LE CP	. 1580							CROL	76.76	.9600	.1102	0909 1364 1839	2196	2308	.90070	RE CP	. 1580				
- 0A148		MACH .	DEPENDENT VARIABLE	.1120		0645 0123	.0270 .0540	.1910	.2468			rara.	.9210	1228	0598 1099 1716	2580	2325	#WACH #	NT VARIABLE	.1120		0693	0282 0107 0014	
PRESSURE DATA	AMES 11-073(0A148)	.135 MA	DEPENDEN	.0700	.0358	0080	. 0926 . 0881	.0961 .1489	.1827			.2043	.8790	2050	1315 2093 3485	1.4840	2881 1256	.206 M	DEPENDENT	.0700	.0130	0298 0065		
	AMES	•		.0460	7511	1028	1817	. 1979 . 2487	.2749			.2694	.8210	2000	.0585 .0628 .0712	1810	9474	,		.0460	.1043	.080.	.0807 .0738 .0895	
TABULATED		BETA (2)	Ę,	. 0230	2010		3915	.4133	.3827			.3525	.7790	0579	10%: 1 0266 0595	1159		. 150/ EETA (3)	AGE	.0230	2081	400 100 100 100 100 100 100 100 100 100	. 2005 2005 2005 2005 2005 2005	
			R FUSELA	.0080	F.728			南南				.5658	.7290	.0108	4389	1262	0209	3.920 BA	1) ORBITER FUSELAGE	. 0080	F. 4.		.3736	
72		= 4.002	1) ORBITER FUSELAGE	.0000	0706	6.03.1						1.2079	.6520	.0528	2287 1684	1252	0523	000k	1108817	. 0000	101			
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	ĬŦ.	30.00 00	55.000	90.000	140.000	151.000	169.000	174.000 180.000	X/LB	PH1 .000	70.000 90.000 105.000	120.000	155.600 150.000 165.000	180.000 ALPHA (3)	SECTION C	X/LB	#E	20.030	25.000 26.000 26.000	100.000

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50				e E							3.5837	5740		ž <u>š</u>			
PAGE				0/64	.0035	1100.	£00				•	0254		11211.	0045 0175 1617	0392	0249
	£		!	3780	51.20.	.0320	1880.				FRV.L	8		.0585	0838 1099 2558	1102	1273
	(XE8807)			3010	3273	2235					- 1059.9	6.6		0182	1942 2544 5237	-,4669	5152
•	,				-1.0351	9244	9568				· •		arcs.	0633	5047 6132 6561	6276	.6640
				.2040	6770	9849	-1.1085	1.0460	.1026		599.20	į		0384	0564 0945 1685	5712	-1.0413
-	FUSELAGE			.1770	.0828	<u> </u>	•	1.0180	.3126				1770			5850	<u> </u>
TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1	/R ORB F			.1660	<u>p</u> .	336±	.5689	0666.			o	!	. 1660	0152	03.40 03.40	2880	9+09•
(AMES	-140A/B/C/R		LE CP	.1580			.6688	.9600	. 1089 .0432 . 1275 1782	2713 2282 2144 3133	.89867	BLE CP	. 1580				.7048
- 0A14B	04148) -		DEPENDENT VARIABLE	.1120	.2074		.262*	.9210	- 1285 - 1559 - 1258 - 1834 - 2278	3347 5253 5085 4481	#ACH	NT VARIABLE	1120	.0277	1336 1437 1437 1571	.2008	<i>;</i>
URE DATA	11-073(04148)	4.206	DEPENDEN	.0700	.1389		. 1845	.8790	2144 2244 3872 5348	6238 5365 4345 2285	-3.900 H	DEPENDENT	.0700	1307	. 2305 . 1980 . 1882 . 1505	.1150	
ED PRESS	AMES	p		.0460	.2380		.2361	.8210	1996 1779 0057 0062	.0869 .3126 .4146			.0460	2355.	8.505. 8.705. 8.705. 8.705.	. 1870	
TABULAT		BETA (3)	ige ige	.0230	3308		3545	.7790	0741 0594 1440 0644	7.47 1.68 1.67 1.75 1.00	BETA (1	AGE	. 0230	.3631	2.697 2.697 2.697	.2937	
		3.920 BE	1) ORBITER FUSELAGE	. 0080			.5401	.7290	.0030 3946 2861	1280	7.946 B	1) ORBITER FUSELAGE	.0080	.8051	.6343		
8		3.6	1.0RB1TE	.0000			1.1911	.6520	.0514 .0511 2306 1680	0917 0537 0527		1300681	0000	1.1655			•
DATE 10 FEB 76		ALPHA (3)	SECTION (X/LB	PH1 140.000 150.000	151.000 162.000 165.000	159.000 174.000 180.000	X/LB	PH1 	120.000 135.000 150.000	180.000 ALPHA (4)	SECTION (X/LB	PHI . 000	\$5.000 70.000 90.000	140.000	151.000 162.000 165.000 174.000

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AWES 11-073(All48) - 140Å/B/C/R 098 FUSELAGE (1000) (100) - 1300 (110) - 13000 (110)	PAGE				Ş		2010							,	' ,	į	2/54.	1249	. 1022	3020	7 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0131	9200.	į	:50
March 1) Pressure DATA - OAI-96 (APES 1-073-1) APES 1-073(OAI-96) - 1-0AA/B/C/R ORB FUSELARE (1861 1-073-1) APES 1-073(OAI-96) - 1-0AA/B/C/R ORB FUSELARE (1862 1-073-1) APES 1-073(OAI-96) - 1-0AB/B/C/R ORB FUSELARE (1862 1-073-1) APES 1-073(OAI-96) - 1-0AB/B/C/R ORB FUSELARE (1862 1-073-1) APES 1-0AB/B/C/R ORB FUSELARE (1863 1-0AB/B/C/R ORB FUSELARE (1963 1-0AB/B/C/R ORB FUSELARE		202												á				_							S S S S S S S S S S S S S S S S S S S
AMES 11-073(ANLW) - 1046 (AMES 11-073-1) ANES 11-073(ANLW) - 1046 (AMES 11-073) CTION (1)0981TEF FUSELAGE		(XEB			20102		000									2	90.00	0176	0428						1282
AWES 11-073(0A1W8) - 140Å/B/C/R ORB FUSELAGE					0.50		1000									0180		0583	11			.6460			. 5652
AMES 11-073-1) AMES 11-073(0A149) -140Å/B/C/R ORB FUSELAG HA (4) = 7.946 BETA (1) = -3.900 CTION (1) ORBITER FUSELAGE					190g	8	C136.		. 1616					3.20		Osto.		0334	0573			-			
ARC		FUSEL AG	•		1770		1.0180		.5123 .4057							9771							•	Ĭ	ī
ARC	5 11-073	/C/R 0RB			. 1660	\$863	0666				- 3634 - 2890			0		.1580		0105	0031	039+	1364	.5060	8195	C. P. P.	1
AMES 11-073(IR (1) = 7.946 BETA (1) = -3.900 CTION (1)0981TER FUSELAGE 3 .0000 .0080 .0230 .0460 .0700 11 10 .0000 .1390 .0729 .1210 .1012 1.000 .1394 .0629 .0005 .1210 .1012 1.000 .1394 .0629 .0005 .1210 .1023 .0000 1.000 .1394 .0629 .0005 .1210 .1681 .1023 .0000 1.000 .1394 .0629 .0005 .1210 .1681 .1063 .0000 1.000 .1394 .0667 .0739 .1963 .1963 .0000 1.000 .1394 .0728 .0888 .2891 .1963 .0000 1.1725 .8168 .3864 .2302 .1329 1.000 .0000 .0080 .0230 .0460 .0700 .1300 .0000 1.1725 .8168 .3864 .2302 .1329 .0000 1.1725 .8168 .3864 .2302 .1329 .0000 2.8956 .1930 .0934 .1000 2.8956 .1930 .0934 .1000 2.8956 .1930 .0934 .1000 2.8956 .1930 .0934 .1000 2.8956 .1930 .0934 .1000 2.8959 .1935 .1003 .1000	18 (AME:	-140Å/B			. 1580		.9600		0.00	- 1367	1818	2134 2134	3115	.89867		. 1580	! :							.6732	
AMES HA (4) = 7.946 BETA (1) = -3. CTION (1)0481TER FUSELAGE 3 .0000 .0080 .0230 .0460 H1 .0000 1.1655 .4203 .2133 .1701 3 .6520 .7290 .7790 .8210 H1 .0000 .1340 .0829 .00051210 .0000 .2559 .4906 .0252 .0987 .0000 .2559 .4906 .0252 .0987 .0000 .2559 .4906 .0252 .0987 .0000 .2061 .2518 .0835 .0888 .0000 .3061 .2518 .0835 .0888 .0000 .159 .0721 .0976 .3295 A (4) = 7.956 BETA (2) = .1 TION (1)0481TER FUSELAGE D .0000 .4880 .3654 .2302 .0000 .4880 .3854 .2302 .0000 .4880 .3854 .2302 .0000 .4880 .3857 .1835 .0000 .3357 .1835 .0000 .3357 .1835 .0000 .0000 .3357 .1835 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .2358 .0000 .1725 .4119 .0000 .1725 .4119 .0000 .1725 .4119 .0000 .1725 .4119 .0000 .1725 .0000 .100	TA - 0A1	\$(0A148)		INT VARIA	.1120	.2015	.9210	5	- 1621	1013	2118	1952	1417		IT VARIAE	.1120		.0275	.0572 .0587	0706	1651	.1924		.2107	
HA (4) = 7.946 BETA (1) = CTION (1)0481TER FUSELAGE 3 .0000 .0080 .0230 .044 41 1.000 1.1555 .4203 .2133 .171 3 .6520 .7290 .7790 .821 41 .000310057461226 .092 .00030612518 .0835 .088 .000337 .0721 .0976 .329 .00016181050 .0897 .229 A (4) = 7.956 BETA (2) = TOO .0000 .220 110N (1)0481TER FUSELAGE .0000 .0000 .0080 .0230 .046 .0000 .0000 .0230 .226 .0000 .0000 .0230 .226 .0000 .0000 .0080 .3867 .220 .0000 .0000 .3357 .1919 .0000 .0000 .0000 .3357 .1919 .0000 .0000 .0000 .3357 .1919 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .2262 .1930 .0000 .0000 .2262 .1930 .0000 .0000 .2262 .1930 .0000 .2262 .1930 .0000 .2262 .1930 .0000 .2262 .1930 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .0000 .0000 .0000 .2262 .1930 .00000 .0000 .0000 .2262 .1930 .00000 .0000 .0000 .2262 .1930 .00000 .0000 .2262 .1930 .00000 .0000 .2262 .1930 .00000 .0000 .2262 .1930 .00000 .00000 .2262 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .22620 .1930 .00000 .00000 .00000 .1930 .00000 .00000 .00000 .00000 .1930 .00000 .00000 .00000	SSURE DAY	S 11-07	3.900	DEPENDE	.0700	.1012	.8790	1031	- 1905	1023 1963	2991	3291	0417		DEPENDEN	.0700		.1329	1378	. 093 2000	9260	.1003		.1141	•
HA (4) = 7.946 BETA CTION (1) OMBITER FUSELAGE B .0000 .0080 .0 HI .000 1.1635 .4203 .2 HI .000310057461 HI .000310057461 HI .00030612518 .0 HI .00015181050 .0 HI .0001537 .0 HI .0001537 .0 HI .00011590721 .0 HI .00011590721 .0 HI .0001155 .8168 .35 HI .000 .000 .33 HI .000 .000 .33 HI .000 .000 .33 HI .000 .000 .33 HI .000	NED PRE	AME			.0460	.1701	.8210	- 101	0987	970. 9770.	. 0888	. 1425 . 2557	.3295	*		.0460		. 2223 . 2223	. 2280 . 2280	1930	1814	. 1835		.1707	
HA (4) = 7.946 CTION (1) ORBITER FUSE 3 .0000 .0080 HI .0000 1.1655 .4203 3 .6520 .7290 11000 -30612518 .0000 -30612518 .0000 -11590721 A (4) = 7.956 8 TION (1) ORBITER FUSE .0000 .0080 11725 .8168 .0000 .0000	TABUE		-	AGE	.0230	.2133	.7790	2000	. 1255 2551	0388	. 0835	. 1029 . 0911	. 0897 . 0976	~	ige ige	. 0230		.366. 3867	.4303	.3956 .3812	.3357	.2699		.2325	
TTON C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				ER FUSEL	.0080	.4203	.7290	.0829	5746	9064	2518	1050	0721		R FUSELA	.0080		.8168		.4880				9114.	
11.00	0				.0000	1.1635	.6520	. 1340	. 139t 3100	2559	3061	1618	1159		1) ORBITE	.0000		 27:1						1.1725	
			ALPHA (4)	SECTION (X/LB	PH1 180.000	X/LB	PH1 .000	40.000 70.000	90.000 105.000	120.000	150.000	180.000	ALPHA (4)		X/LB	PHI	.000 .000 .000 .000 .000	388	90.000	140.000	150.000	162.000 165.000 169.000	180.000	

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4119 .7290

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956 RETA (2) = 1.143 1.143 Common Commo	DATE 10 FEB 76		TABULAT	ED PRES	TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1	- 0A148	C AMES	11-073-1				(YEBB07)	5	PAGE 1	101
1822				AMES	3 11-073		-140A/B/C	/R ORB FI	USELAGE			(XERRI	3		
1822 1817 1818 1819 1.0460			_		. 143		,								
- 267 - 1832	=	ER FUSEL	AGE		DEPENDEN	IT VARIAE							٠		
- 2-18	_	.7290	.7790	.8210	.8790	.9210	.9600			1.0460					
		6267 4741	1832 1058 0112	.0250 .0250 .0188	1680 2542 3573	1113 1617 2089	1240 1599 2068	100							
- 11146 1062 3576 - 3350 - 2844 - 3367 -3861 - 2849 -3867 -3867 -3867 -3867 -38687 -		2439	0180	.0886	4759	2686	2347	- 2869							
		1148	1062	3978	3350	. 280 1987.	3027								
DEPENDENT VARIABLE CP 0230	_	0705	1327	.4261											1
DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DE30			•				. 89867	σ		.20		1059.9			.5857
7967 - 3786 - 1787 - 1888 - 1887 - 1887 - 1888 - 1887 - 1888 - 1887 - 1888 - 1887 - 1888 - 1888 - 1887 - 1888 - 18		ER FUSEL	AGE		DEPENDE	IT VARIA									
3.396 .0391 <td< td=""><td>9</td><td>.0080</td><td>. 0230</td><td>.0460</td><td>. 0700</td><td>.1120</td><td>. 1580</td><td>. 1660</td><td>1730</td><td>.2040</td><td>.2510</td><td>.3010</td><td>.3780</td><td>970</td><td>07.C.</td></td<>	9	.0080	. 0230	.0460	. 0700	.1120	. 1580	. 1660	1730	.2040	.2510	.3010	.3780	970	07.C.
. 3396 . 1637 . 1087 . 10039 10888 1649 1107 . 1117 . 1117 . 1118 10500 1588 1588 1189 1082 1189 1	2	500	ş	2230	1110			0243		0391	0645	0345	.0393	.1172	138
- 1156 - 1119	•		3342	1837	0647	.0034		0438		0988 0988		1107	9210.	.0765	. 1612
- 4758 - 7701 - 267705340535053505360411063705340534053405340534053405340534053405350535053604115053905360336			2862. 6990. 6990.	4180.	0090 0090	0226		1156 : 099 : 363		1558 2107 3331				0437	
- 5230 - 14720571 - 1567412108651210 - 1.05527158411506584115065841150658411506587159135092122523135092109200 1 .0460 1 .0460 1 .04602322050423022302230205043408		8	6.KG 5.KG	1022	.0172	300		94.70		4768				. 0266	
.5161 .5161 .5161 .5161 .5162 .5162 .7290 .7			.2230	.1472	.0571	.1567		.4121	•	1.0273	6736		•	.0016	
. 525 1360 . 0912 . 1925 5223 - 1.1072 7143 4217 0594 5224 5225 5225 5225 5225 5225 5225 5225 5225 5225 5200 0990 . 1.0180 . 1.0460								1918		-1.0552	7158		0658	.0015	
. 0867 . 0037 - 1282 - 1933 - 1620 . 9500 . 9990 1.0180 1	r	.3729	. 2254	. 1360	.0912	.1925	.6247	.5223	•	-1.1072	7143			0080	
. 0867 . 0037 - 1282 - 1933 - 1620 . 1025 . 5102 . 5102 . 5108 . 5108 . 5108 . 5109 . 0194 . 3466 . 5858 - 1810 . 0194 . 5466 . 5252 - 0506 - 2655 - 1931 - 1636 . 5108 . 5109 - 1019 - 0441 - 14749 - 3347 - 2470 . 3708 . 3708 . 5563 - 5564 . 3664 . 3664 . 3708 .	2	7290	.7790	.8210	.8790	.9210	.9600	0666	1.0180	1.0460					
- 5858 - 5322 - 1056 - 5655 - 1636 - 1636 - 1636 - 1636 - 1637 - 1636 - 1636 - 1637 - 1638 - 1636 - 1637 - 1638 - 1638 - 1638 - 1638 - 1634 - 1634 - 1634 - 1634 - 1634 - 1634 - 1634 - 1634 - 1635 - 1637 - 1639 - 1636 -	2		.0037	1282		1620	1025		5102	. 2501 0970					
7302 - 1653 - 15563 - 1550 - 1550 - 2555 - 7367 - 2530 - 2530 - 2550 - 2	= KR	ii	- 2322	0506		- 1931 - 2660	- 1636 - 2108		; ; ;	 					
1.0505 - 1.0	•		A 1010	1110		- FEE	2867	3019							
	1659	6302	2000 2000 2000 2000	20.00	4.734 4.000	15.	2000	•							

(XEBB07)

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BETA (3) =

ALPHA (4) = 7.955

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			879		.5740	36		.2801			_					
			3.5879					7		•	•	•				•
					.4970	SIRI		.1798		.0599	2725	0907	0480	0110		
			FW/L		.3780	8968		<u>=</u>		25.	•	- 2430	2563 -	- 2204		
			1059.5		.3010	2C40		.0633		. 828. . 838.		. 5196	5633	- 2562		
		·			.2510	6560		.0127		5522 5522		5871	- 9365	- 6095		
	1.0460		599.98		.2040	E 040	8540	.0562			. 25.00 -	•	. 0618	7193		. 1565 1555
	1.0180	٠	865		.1770				•	•	•		5381	•	1.0180	. 5581 . 4258
	088G.		ø		. 1560	4170	7670	. 1139	7000	.0553	. 1863	. 5639	2677	¥57		. 304; . 3104
PLE CP	.9600	3156	7+668	RE CF	. 1580									\$ 100°	.9600	. 1976 - 1370 - 1370 - 1816 - 2380 - 2389 - 2799 - 3374
DEPENDENT VARIABLE CP	.9210	4268	MACH .	DEPENDENT VARIABLE	.1120		1374	1971	200	1360	. 1362	.1374		. 1460	.9210	. 1635 - 1746 - 1746 - 2072 - 2784 - 2720 - 2720
DEPENJE	.8790	2264	3.885 M	DEPENDE	.0700	.2372	. 2322	2891	0.00	1616	.0589	.0133		0138	.8790	1300 1778 2539 2566 3734 3734 3734
	.8210	. 3236			.0460	10 m	3609	4022 25.25		. 2505.	1471	.0875		.0613	.8210	. 1306 . 1306 . 1306 . 1306 . 1306 . 1937 . 2828
AGE	.7790	. 1050	BETA (1)	JOE 10E	.0230	.504.	.5515	.6217 7478	, N. 10.1	4304	5972	. 1639		.0912	1790	
R FUSEL	.7290	084		R FUSELA	0800.	.9305				.5663				Ž.	.7290	. 1635 5778 5778 2619 2590
1) ORBITE	.6520	1110	• 11.987	1) ORB! TE	0000.	1.1024								1.1024	.6520	
SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 .000	20.000	40.000	20.55	90.000	120.000	150.000	162.000 165.000 169.900	174.000 180.000	X/LB	PH

TABULATED PRE: ANY 7 BETA (2) = FUSELAGE	<u>c</u>	86 Ki '	PRESSURE DATA - OA! AMES 11-073(OA148) .148 MACH = pependent vari	- 0A148) 2H =	8 (AMES 11-073-1) -140A/B/C/R ORB FUSELAGE .89947 0 = 59 BLE CP	(AMES 11-073-1 40A/B/C/R ORB F 89947 0 E CP	USELAGE = 599	SS . 38	• •	(XE8807)	107) RN/L	PAGE	109 3.5679
.0000	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	55.	.3010	.3780	0.6970	.5740
9368	.5084 .5191 .5273	33.73 53.53 53.53	. 2128 . 2224 . 2224	1258		.0780 .0697		. 0353 . 0090	.0310	.0493	. 1001	.1593	.2169 .2427
8414.	38. 38. 37. 37. 37.	. 1852 1574 1574 1965	. 1363 .0782 .0723	.050 .0709 .0749 .1229		0327 0241 0065 . 1386			5235 6452 7352	2688 2331 4350	1954 2068 3056	0852 0797 1508	
	1641.	6880.	1803.	.1421		.4886	1640	7275	5895	5151	2061	0478	
						.5162	9081	9846 -	6046	5260	2034	0096	
.2403	.1108	.0590	.0195	.1573	.6140	.4915		mm	6182	5351	1795	.0882	
.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
1721 7392 5968	.0853 .1076 2221 1332	0425 0181 0993 0492	1280 1858 3370 3555	1861 2021 3131 3562 4665	. 0993 . 0062 1861 1873	ğ	.5576 .4c30	.283 .133					
2824 2043 1225	.0016 .0103 .0378 .0717	.3639	4513 4176 3736 1526	4924 3985 3845 3232	2301 2612 2780 3287	. 2871							
æ	BETA (3)		.223 M	MACH	.89947	o	- 592	599.98	•	1059.5	S REVL	• •	3.5879
110PBITER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
.0080	.0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	3780	0.64	57.50
.9222	1864	3459	.230.	Ş		.0722		9. 9. 9.	.0216	.0391	9660.	.1765	.2086
	. 4095 . 4095	18. 18. 18.	0,71. 0,41.	9.00 9.00 9.00 9.00		20.0		0582	1234	0811	.0310	.1173	.2098
.2570	8.5.5. 8.6.5.5.5	. 0771 . 0771 . 0580	0219 0185 0185					1814 2816 	5970 7315 6824	3490 2221 3621	2340 2040 2488	1321	

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DATE 10 FEB 76

(XERB07)

		57.5					
•		; F1	0063	.0030	0182		
		.3780	2092	2121	2421		
		.3010	5357	5462	5612		
		9189	6076	6191	6045		
		.20¥0	6239 9964	9580	6555	1.0460	
		0771.	.0703	. 1055		1.0180	.3800 3800 3800
		.1660	.3948	.4855	.4862	0666	3828 2719
	ALE CP	.1580			.5900	.9600	. 1028 0152 3799 3734 6730 5579 4478
	DEPENDENT VARIABLE CP	.1120	. 1259		.1470	.9210	- 1866 - 2442 - 2442 - 5509 - 6171 - 6207 - 4728 - 4728
4.223	DEPENDE	.0700	0150		.0143	.8790	1362 1876 4057 4581 5371 4546 3927
		.0460	.0673	,	.0671	.8210	0255 0384 0384 0386 3384 3338
BETA (3)	AGE	. 0230	. 1222		.1139	.7790	
	ER FUSEL	.0080			.2137	.7290	5988 5988 2763 1149
	1) ORBITI	. 0000			1.0962	.6520	.2108 .2155 .24550 .3504 .3504 .2134 .1533 .1533 .1596
ALPHA (5) = 11.987	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 140.000 150.000	162.000 165.000	174.000	X/LB	PHI 40.000 70.000 105.000 120.000 150.000 150.000 165.000

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PAGE 111	-				133.65	·		009703280445058v050	18131529087110140675	10:40595	173617980974 .0110 1098337112980304	•		3131- 1011									
	W		58 4	598.61				0313	1832	1358	. 0854 . 1480	. 1132 0992	1492	!	2519			.3093	.1287				
^ T	FUSEL AG			#C	•	0771						į	.8036			1.0180		191.	.0816				
PRESSURE DATA - DAI48 (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE		•	0		. 1660		0558	- 1002	22.48	. 55.49 156.49	9886		1.0599	.9957	0866						· •	
48 (AME				1.3953	GLE CP	.1580									1.0960	.9600		2638	.0539		0394	1050	486
TA - 0A1	11-073(0A148)		829	MACH	DEPENDENT VARIABLE	511.		077	0552	.2169 CR30	4715	5542	•	•	.5547	.9210		2073	.0572	0220	05+0	7261	3013
SSURE DA	AMES 11-07.		.0000 IN. .0000 IN. 375.0000 IN.	-3.884	DEPENDE	.0700		.0079	.0615	3119	.4456	.4799			.4739	.8790			1432 1432 1933			.1055	
	A		375	*		.0%0		.0906	.3126	.4112 7784	6099	.6419			.6023	.82:0		0926	068	.2317	.2792	.4093	.4593
TABULATED		ΥŢΑ	XMRP YMRP ZMRP	BETA (1	AGE	.0230		. 2040 17584	.5950	. 7515 . 7515	.8119	. 7939			.7297	.7790			0506		3451	25.5. 3789	.3588
		REFERENCE DATA	S0.FT.	-4.017 B	110RBITER FUSELAGE	.0080		.6767		.9395					1.0255	.7290		0280	.0191 .0487		.0600	.0358	.0097
FEB 76		REFE	2590.0000 474.8000 935.0680 0300		(1) ORBIT	.0000		1.4763							1.4763	.8520		0258 0729	.00% .00%		.0352	0149	0230 0193
DATE 10 F			SREF LREF BREF SCALE	ALPHA (1)	SECTION	X/LB	Ē	20.000 50.000	200.00	80.000	140.000	150.000	165.000 169.000	174.000	180.000	X/LB	Ī	.00. .00.	70.000 90.000	105.000	120.000	150.000	

	2.9166		5740	0562	049								2.9165		.5740	0 4 19
	•		0/5±.	05#3	0825	0014 0080 0598	0759	0812	0819						072v.	0693 0:57 0:51 0618
198	TAN'T		.3780	0443	063¢	- 132 - 133 - 182	1439	1289	1225				FBV/L		.3780	0610 0610 1437 1589 2431
1XE8808	F 439.24		3010	0197	1115	- 1692 4084 4084	1887	1.149	1115				· 439.24		3010	0190 0800 2295 3029 4600
	۵.		.2510	0031	1172	5. 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	3030	2810	3089				•		S.	0104 0786 2943 3082
	598.61		.2040	0369	1223	01-	0731	1565	2946	1.0460	. 1846 . 1846		598.61		.2040	0478 0826 0018 0138 1119
ORB FUSELAGE	- 58		.1770				CE TO	12.		1.0180	1771.		*		.1770	
	o		.156	0581	0586 0555	2.509 1.509 1.509 1.509	.9290	1.0336	1.0224	0666.	ļ	1977	σ		.1660	0628 0574 0476 .0327 .0877 .1164
-140A/B/C/R	1.3953	BLE CP	.1580					-	P	.9600	2659 2900 0036 0402	1331 0241 .0193 3214	1.3953	X.E. CP	.1580	
	MACH =	NT VARIABLE	.1120	0527	- 053¢	1569	.5120		1985.	.9210	2067 1576 .0093 0001	1130 .0107 .1012 .1864	MACH	IT VARIABLE	.1120	0466 0543 0124 .0503 .0679
AMES 11-073(0A148)	н 33:	DEPENDENT	.0700	.0170	46. 1861	2297 2297 3542	0644.		.4825	.8790	1595 1631 . 1007 . 0625 0235	.0238 .0716 .1670	.241 R	DEPENDENT	.0700	
AFE			.0460	.0803	2280	3035 5785 5865	.6073		.6059	.8210	0863 0911 .2201 .1882	. 1384 . 3817 . 4138	*		.0460	.0659 .0699 .0811 .1531 .7505. .7505.
	BETA (2)	AGE	. 0230	2004. 2004.	5872	.5783 .6399 .1717.	.7+08		.7317	.7790	0398 0610 0053 .1419	.2911 .3957 .3909 .4033	8ETA (3)	ĘF.	.0230	. 2014 . 3191 . 4107 . 4750 . 5330
		1) ORBITER FUSELAGE	.0080	.6744		.7962			1.0105	.7290	0177 .0088 .0315	.0384		R FUSELAGE	.0080	.6565
	-3.966	1)08817	.0000	1.4791					1.4791	.6520	0229 0476 .0543	.0037 0039 0054	- 4.012	1 JORBITER	.0000	1.4647
	ALPHA (1)	SECTION (X/LB	PH1 .003 20.000	40.000 55.000	70.000 90.000 120.000	150.000	162.000 165.000 169.000	190.000	X/LB	7H1 - 000: - 000	120.000 125.000 150.000 165.000	ALPHA (1)	SECTION (X/L8	741 . 000 . 000 . 50. 050 . 55. 060 . 90. 000 120. 000

)A148 (AMES 11-073-1)	AMES 11-37310A1481 -140A/B/C/R ORB FUSELAGE
TABULATED PRESSURE DATA - DAIH8 (AMES 11-073-1)	AMES 11-373(0A148

OFFE. STE -.035 -. R.S. -.0370 **F** £65. -.0318 -.0513 -.0949 -.1140 - 1940 -. 1997 Z -.0253 -.0539 -.1013 -.1530 -.0018 1780 3780 -. 1623 -.1768 -. 1437 - 1530 439.00 -. 1818 -. 1346 .3010 -.1573 .3010 -.0782 -.1597 -.3264 -.2538 -.2283 1600. -.080+ 50.00 Š -.0559 .1533 -.3505 1700. -.3148 -.3079 -.3185 -.2959 -.0128 -.0371 -.0571 .1773 .14:6 .1593 .1059 -.2048 -.2184 -.1721 -.2676 . 20±0 .20% . 1812 1.0460 598.93 5448 6609 . 1943 . 1403 <u>.</u> 14%. 1761. <u>ott</u>: 1.0180 -.0189 -.0027 -.0013 -.0013 -.0013 -.3039 -.3039 -.3039 .9990 -. 2288 -. 2350 .**8**468 .9859 . 1660 . 1660 1.0281 1.0111 1976 .1580 1.0363 .9600 . i 380 -3.899 MACH = 1.3961 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2024 -.1585 -.0257 -.0518 -.0980 -.1935 -.0635 .0186 .1120 5460 .9210 0032 0380 1640 1640 3751 3751 .1120 .4531 385 -.1597 -.1636 .0841 .0355 -.0638 .0260 .1242 .3427 .0700 .0700 £003. .8790 3577 === ¥. -.0889 -.0771 -.2224 .2085 .1832 .8210 .0278 .3423 .3673 .0460 1655 1901 3822 1822 1835 1835 1843 1843 .0460 .5686 .6077 .457B .0230 -.0469 -.0386 .0042 .1363 3205 3677 3677 5374 6521 7013 7331 .7328 6847 .0230 5867 .130 BETA SECTION (110KBITER FUSELAGE SECTION (1) DRBITER FUSELAGE -.017Z -.0199 .0080 .0439 .0192 .0124 .0080 9138 7290 .8021 -.007 -4.012 -.0377 -.0239 -.0418 -.0125 -.0215 -.0226 . 0000 .0266 1.4852 .00006520 DATE 10 FEB 76 ALPHA (1) KPIA (2) 40.000 103.000 1135.000 1155.000 1155.000 1165.000 1165.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.00 PH1 140.000 150.000 151.000 162.000 165.000 174.000 180.000 X/LB

AMES 11-073-1)
- 0A148 C
TABULATED PRESSURE DATA
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DATE 10 FEB 76

ANES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

PAGE 114

		57.6					2.9179		3740	- 100	0243						
		5.64.	09B2				7		072¥.	6261	0420		₹6°-	0%	0787		
		.3780	1752				SOLVL I		3780	9100.	0075	1121	1595	1704	1866		
		3010	2019				139.00		3010	.0207	0373	1418 2223 3910	2485	2119	1711		
		<u>8</u>	3429				•		50.	7:00:-	0275	2164 2186 2020	3584	3291	3610		
		.2040	3037	1.0460	. 2259 2359				.2040	0123	0323 0323		0380 1994	2052	3524	1.0460	1360
		.1770		1.0180	.2231		• 598.93		.1770	•				.7155 .7155		1.0:80	į
		. 1660	.9556	0666	F. C.	1897	o		.1660	0100	- 0003 - 0002	. 1611 . 2219 . 4699	.6880		.9837	.9990	
	LE CP	.1580		.9600	1972 2479 0053 0830	1427 0203 .0396 2693	1.3961	LE CP	.1580						1.0293	.9600	
	DEPENDENT VARIABLE	.1120	.3722	.9210	1438 0788 0201 0170	1101 0301 .1173 .2253	MACH =	IT VARIABLE	.1120		.0207	. 1392 1392 1589 1589	.3523		sme.	.9210	
-3.899	DEPENDEN	.0700	3635.	.8790	0933 1109 .0608 .0261 0578	.0321 .0353 .0454 .3999	.155 MA	DEPENDENT	.0700	. 092P	. 1343	. 2364 2364 . 3364	.3323		.3654	.8790	
u		.0460	.5072	.8210	0309 0398 .03+0 .1272	.3229 .3270 .3270			.0460	164	. 1745 .2081	. 3706 1.3706 1.006 1.006	.5225		.5130	.8210	
SETA (1)	¥	.0230	.6073	.7790	.0044 0156 1336 0941	.2630 .3252 .3166 .3210	BETA (2)	¥	.0230	.3300	.4704 .4704	. 1933 1. 1931 1. 1931 1. 1931	£65.		.6141	.7790	9
	R FUSELAGE	.0090	.8394	. 7290	.0053	0110 0820 .0079		SECTION (1) OPBITER FUSELAGE	0800.	.7998		.7705			.883¢	. 7290	6
				_			001	18 TE	8	82					86	2	
007	1) ORBITER	.0000	1.4852	.6520	0075 0127 .0110 .0350	0177 0341 035-		200	.0000	1.4868					1.4858	.6520	

MES 11-073-1)
- 0A148 (A
PRESSURE DATA
TABULATED
) FEB 76

-.0547 -.0546 -.0731 PAGE -.0540 0.694. -. 0338 -.0935 -. 1016 -. 1047 Z -.1569 -.1771 -.1943 -. 1912 3780 .0017 -.0099 -.2055 -. 1745 (XEBB0B) 439.00 -.0235 -. 1919 -. 2781 -. 4598 -.2476 .3010 .0118 -.2128 -. 1924 -.0062 -.2610 -.275.+ -.2725.-.8510 -.0108 -.3688 -. 949C .3611 -.0264 -.0309 -.0566 -.0566 -.0590 -.0350 -.0371 -.2188 .2040 -. 3230 .3189 0719. .9990 1.0180 1.0460 1.0460 598.93 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .:770 1.0180 .5314 .6345 . 1939 - 0409 - 0192 - 0192 - 0506 - 1040 - 1486 - 3609 9880 -.2379 .1660 .8218 9446 .97.1¥ O -.0601 -.1088 -.1479 -.2318 -.0809 -.0388 -.3142 -.2082 -.1103 -.1454 -.1844 -.3291 -.1482 -.1174 .9600 .1580 .9716 .9600 1.3961 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP MACH -.1402 -.0981 -.0924 -.0966 -.1697 -.2155 -.1060 -.0290 -.0570 -.0530 -.1248 -. 1489 -.0398 -.0520 .0520 .1120 .9210 .3210 .3647 .0160 .0146 .0387 .0655 .0727 .2118 2992 .0163 -.0241 -.1305 -.0947 -.0988 -.0073 -.0581 -.1664 -.0723 -.0061 .0820 .0043 .0724 .1140 .3319 .0700 .0936 .0663 .0982 .1534 .1534 .2255 .3742 .8790 .3038 .8790 **+.218** -.0324 -.0160 .0758 .0894 .1228 .0596 .0979 .1202 .8210 .1976 .3305 .3526 .8210 .0577 .283: .294:2 . 4524 .0460 .1495 .1505 .1641 .2076 .2250 .2695 .3871 .4856 .5156 BETA (2) BETA (3) .0006 .0146 -.1016 .0246 .1631 -. 1301 .0077 .1493 .2604 .2769 .3122 .3162 3238 3229 3959 4544 4865 5222 .7790 . 0230 5868 .6120 .7790 2175 2798 2946 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.0961 . 900 .0000 . 7859 -.1185 .7290 .8628 .0110 .0074 .0173 .7290 .0061 5710. .6192 -.006 -.001 0110. -.0075 -.3150 -.0133 -.9251 -.0510 -.0157 -.C146 .0000 1.4720 .6520 .013年 1.4720 .6520 ALPHA (-) ALPHA (2) PHI 75.000 90.000 11.10.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 11.50.000 DATE 10 X/LB

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2.9179

-.0365 ..03±1

東京にいて、東京の東京を見られる中であるというできます。 かきていて 要かった

サンド・アンドン マンテン 一年 「東京社会の大学会」というという。 マンド・アンド・アンド・アンド・アンド・大学会のできるというという。 アンド・カー・アンド・アンド・アンド・アンド・アンド・アンド

DATE 10 FEB 78	æ		TABULATED P	TED PRES	SURE DATA	- 0A146	RESSURE DATA - DAIMB (AMES 11-073-1	11-073-1	<u>-</u>					PAGE	3.6
		300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	غ ،	ES 11-073(0A148)		-14 A/B/C/R ORB		FUSELAGE			2	â		
10 NO I	1.0AB1TE	3			DEPENDENT VARIABLE	IT VARIA	XE CO								
	.6520	.7290	.7790	.8210	.8790	.9210	.: 500	9866	1.0180	1.0460					
PH1 165.000 -	0241 0285	.0101	3029	.3386	žes.	848	513			•					
ALPHA (3) =	3.5	3.849 86	BETA (1)		-3.909 MA	MACH .	926	ø	- 266	599.13	•	S. S.	TAN'T	•	2.9206
SECTION (1	1) ORB! TE	1) ORBITER FUSELAGE	NGE.		DEPENDENT	T VARIABLE	KE CO								
X/LB	0000	.0080	.0230	.0460	.0700	.1120	280	.1660	0771.	.2040	.2510		.3780	079¥.	5740
	1.4712	.9201		.2612	. 1663			9419		57.23	.0309		.0012	.0119	989
388			5000	34.58 19.45	25.5	i Ses		5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00		10. 17.	96+0	. E.	.0388	.0059	.0233
26.08.05.05.05.05.05.05.05.05.05.05.05.05.05.		.8726	5699 6999 6999 5699 5699	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	i wini Berini Berini	25.55 25.55 1.56 1.56 1.56 1.56		1774 1878 2829 5493		2079 2079 1885 1700	- 1502 - 1355 - 1208		9180 0973 2424	0913 0916 1554	
388			.5684	. H:432	ers.	.2933		.9387		. 1012 1313	3967	CEST.	1919	1711	
3888							•	1006	7467		3633	315 315	+191+	1002	
	1.4712	.7855	.4821	¥81.4.	. 2525	2708	.6515	.9102		3508	3918	Z.	2055	0853	
, -	.6520	.7290	.7790	.8210	.8790	.9210	.1800	.9990	1.0180	1.0460					
PHI *0.000 70.000 90.000 105.000	.0318 .0503 0581 0629	. 1504 1504 0981	. 1791	. 0250 . 0278 . 0950 . 0350	0312 0527 0626 0663	- 0406 - 0406 - 0408 - 0408 - 0408	- 1315 - 1829 - 1684 - 1453		, W.23 3024 3024	. 3058					•
	0953 0543 0467 0346	1020 0122 .0428	. 1918 . 228 . 2218 . 2397	. 2568 . 2568 . 2346 . 2881	0091 0576 0570 2801	1598 1340 .0475 .1668	888 888 1888 1888 1888	. 2569 - 2569						•	

E 117		2.9206		0.5740	3 .0209	5 .0152	សេយុស	ŧ	ū	==				5.9206		5740	0210. ex	E100 60	& 5 E
PAGE		٠.		. 4970	.0203	.007E	1175 0968 1136	0754	0642	0621				BN/L .		664.	.0189	0139	1196 1016 0833
	308)	+ RN/L		.3780	.0518	.0420	103%	1801	1925	1963						.3780	.0561	.0418	1549 1953 1753
	(XE8808)	¥2.65# •		3010	.0428	. 0287	1101	2950	2588	8192				= 439.2v		.3010	.0336	. 024t	1596 2310 4270
		۵.		50 50	.0217	.0627	1827 1916 1973	4027	3679	4057				a .		.2510	.0208	.0591	2822 2411 2737
		599.13	•	.2040	.0311	0600	15151 1108 1108 1108	00±0 2115	248t	3897	1.0460	. 2924		599.13		.2040	0.50°	0051	. 0050 0050 0050
-	-140A/B/C/R ORB FUSELAGE	= 59		0771.				į	.6881		1.0180	. 3376		*		.1730			
AMES 11-073-1	C/R ORB	ø		. 1660	.0479	24.	1.085 1.085 1.087	.8417		.9437	.9990		£882 2970	ø		. 1660	.0381	.0483	.0504 .0604 .1407 .3668
-	-140A/B/	1.3959	BLE CP	. 1580						. 9425	.9600	1183 1543 1151 1690	2638 1321 0895 3126	1.3959	WELE CP	. 1580			
A - 0A148	(04148)	MACH	NT VARIABLE	.1120	!	. 1042	1454 1454 1454 1454	.2626		.27±5	.9210	0790 0460 1175 1248	1838 0915 0015	HACH =	INT VARIABLE	.1120	ļ	.075	.0682 .0713 .0697 .1687
PRESSURE DATA	AMES 11-073(0A148)	ų. E	DEPENDENT	.0700	.1762	. 1538	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	. 2 ⁴ 55		.2667	.8790	0291 0388 0309 1255	0366 .0244 .0796	4.208	DEPENDENT	.0700	-		. 1839 . 1521 . 194
	APE	رح د		.0460	.261	.3005	.3367 .3312 .3513	.4313		. 413G	.8210	.0374 .0408 .0436 .0318		3 * 6		.0460	.2583		57.4. 57.5. 1359. 73.98.
TABULATED		BETA (2	AGE	.0230	.4387	.4558	. 5882 6882 6893 6893 6893 6893 6893 6893 6893 6893	.5301		1684	.7790		. 1976 . 1976 . 2002 . 2138	BETA (?	AGE	.0230	£29.	.4170 .4615	87.4788 5184. 50504.
		3.967 8	ER FUSELAGE	.0080	.9218		.7295			7256	.7290	.0554 1819 1275	0043	3.885	1) ORBITER FUSELAGE	0000.	.9058		<i>011</i> 2.
92 a			1) ORBITER	.0000	1.4748					1 t.748	.6520	.0528 .0573 0678 0236	0233 0221 0250 0248			. 0000	1.4593		
DATE 10 FEB 76	٠	ALPHA (3)	SECTION (x/LB	PH1 000.	20.000 40.000	95.000 70.000 90.000	150.000	151.090 162.000	169.000 174.000	•	PH1 .000 .40.000 70.000 99.000	120.090 135.090 150.090 155.090	ALPHA (3)	SECTION (X/LB	PH.1	20.0C.	55.600 76.000 96.000

陈徐叶·沈明的《张松·陈明·张子·张·雅·陈横楼楼楼梯间间间间》、"《张文·建建图记》》《张

		TABULATED	ă.	RESSURE DATA - DATI	3		AMES 11-073-1	1)			CXERRORY	ĝ	PAGE	118
3.895 BETA (3) = 4.208	· · · · · · · · · · · · · · · · · · ·	•	208	ē		7 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)		T USELAGE			1 AE O			
1) ORBITER FUSELAGE DEPEND		DEPEND	DEPEND	Ž	DEPENDENT VARIABLE	ALE CP								
.0000 .0080 .0230 .0460 .0700	.0460	20	.0700		.1120	.1580	. 1660	.1770	.2040	.83.0	.3010	3780	.4970	.5740
. 4864 . 4021 . 2139	.4021		.2139		.2167		.7906	.5191	1659 2699	4101	2968	1989	0673	
							.9003	.6072	2608	4089	2339	2122	0747	
.4593 .7221 .4903 .4268 .2724·	.4268		4575·		.2625) JE .	.9326		3681	3912	253+	2013	0880	
.6520 .7290 .7790 .8210 .8790		2	.8790		.9210	.9600	.9990	1.0180	1.0460					
.0175 .0474 .0619 .03110288 .0424 .0837 .05300334 65591891197003630765 6:661259 .02071431 .08272465	.0311 .0530 0563 .0207		0288 0334 0765 1433		0784 0481 1445 1405	1311 1560 1499 1877	ii F	.3282	.2831					
. 00250233 .1421 .01090962013207320193 .0146 .2241 .211800210293 .2623 .2623 .2743	.01090952 .21190732 .21180021 .2743	90962 90732 80021 .2021			2470 1483 0744 0141	3492 1861 1541 3646	\$ 3 8 8 1 1							
7.868 BETA (1) * -3.901 MACH	(1) * -3.901	-3.901		77.	,	1.3952	ø	- 599	599.12	•	439.71	1 1 1 1 1 1 1 1 1 1	•	2.9176
11 ORBITER FUSELAGE DEPENDENT		DEPENDENT	DEPENDENT	-	VARIABLE	LE CP						••		
0000. 00%0. 0230. 0800. 0000	.0460	0	.0700		.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0.64°.	S. S.
.3707	.3707	•	1555		Ę		1069		.0896	.0819	.0627	*160·	.0750	.0708
\$ C	\$ C	• •	3319		2115		1670 200 200 200 200 200 200 200 200 200 2			.1224	. 1048	. 1031	.0688	9060.
. 8184 . 6547 . 4267 . 3388 . 56547 . 4267 . 3088 . 5698 . 3778 . 5582	.4455 .3362 .4267 .3088 .3774 .2582	.3362 .3088 .2582			22.99 22.16 22.16		1910 1910 5070		2008 188 7471	1088 1174 1234	0341 0736 3221	0372 0908 5468	1139 1398 2946	
494 .3246 .2074	.3246 .2074	₩2074		•	.2021		.8720	9663	1194	43B6	386+	2218	1314	
						.8141	7116.	Tric.	2919	+055	3278	2094	- 0941	

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119				.5740							1	2.9176		orc.	-080	6						
PAGE				676¥.	0739							• .		.4970	.0813	.0651	1565 1685 1793	0736	0543	9489		
	ê			3780	2220							7		.3780	. 1658	1060 .	0951 1434 8291	1861	1999	2089		
	(XE8808)			.3010	2751							439.71		.3010	.0692	₩60.	1844 1842 3596	3420	2913	2520		
٠				8 .	4300							•		25.	.0776	11011	1502 1648 1861	4353	3989	4405		
				.2040	3868	1.0460	.509! 378!					599.12		.2040	986		1485	.2130 2130	2829	4171	1.0460	.4978 .3812
~	USELAGE			BF1.		1.0180	.4533					- 28		.1776	<u></u>			į	966 966 966		1.0180	.4515
AMES 11-073-1	/R ORB F			.1660	.6620	0866.		696 6	3073			o		. 1660	.1183	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1340	7927	Š	. 8 822	0666.	
-	-140A/B/C/R ORB FUSELAGE		LE CP	.1567		.9600	0603	0383 2235 2860	2525	1033	0000	1.3952	X.E. CP	.1560						.8+50	.9600	0489 0947
- 04148			IT VARIABLE	.1120	.1829	.9210	0145	1948	1989	0015		MACH	IT VARIABLE	.1120	,	1636	13.25 23.55 23.55 24.55 25.55	192%		.1966	.9210	0076 .0138
TABULATED PRESSURE DATA	AMES 11-073(CA148)	-3.901	DEPENDENT	.0700	.1789	.8790	.0365	1424 1327 1644	0605	.0332	R/CJ.	.I** TE	DEPENDENT	.0700	.2736	500. 500.	8000 8000 8000 8000 8000 8000 8000 800	.1784		. 1905	.8790	.0393
ED PRESS	AMES			.0460	3108	.8210	.0967	6330 0330 . 0130	.0685	1198	.3512			.0460	.3790	3925	3390	3340		£2%.	.8210	.1149
TABULAT		BETA (1)	3	.0230	.3591	.7790	1281		.0703	0250	1200	BETA (2)	GE	.0230	.5527	.6243	.5807 5807 5611	. 4261		.3736	.7790	.1590
			R FUSELAGE	.0080	.6198	. 7290	.1108	2398	1722	0309	0360		R FUSELA	.0080	1.0409		2289.			.6051	.7290	. 1213
76		= 7.868	1) ORBITER	0000.	1.4362	.6520	.0953		1837	0903	0646 0511	1.941	1) ORBITER FUSELAGE	.0000	0444.1					1.4440	.6520	.1177
DATE 10 FEB 76		ALPHA (4)	SECTION (X/LB	PH1 180.000	X/LB	PH1 .000		120.000			ALPHA (4)	SECTION (X/LB	PH1	20.000 40.000	55.000 70.000 90.000	170.000 140.000 150.000	151.000 162.000 165.000	169.000 174.000 180.000	X/LB	PH1 . 000 40.000

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DATE 10 FEB 76 TABULATED PRESSURE DATA - DATYB (APRES 11-073-1) AMES 11-07310A1481 -140A/B/C/R ORB FUSE ALPHA (4) = 7.941 BETA (2) = .144	8 (APR.S 11=0/5=1)	AMES 11-07310A1481 -140A/B/C/R ORB FUSELAGE	
BULATED	PRESSURE DATA - DAIN	AMES 11-073(0A148)	**1.
	BULATED		(S) *
			7.91
1.9.	DATE 10 FEB 76		ALPHA (4) =

130881	SECTION (1) ORBITER FUSELAGE	.AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP		٠						
. 6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
1382 0790	2460 1860	2694 2362 0489	1091 0160 0457	1583 1923 2320	1678 2101 3054	1548 2160 2896							•	
, ,	.0858	. 0942 . 0901	.1373	0826 0300	2104 1349 0525	2893	98. 88. 1							
0295	0302		.4689	. 2302	.0061	3219								
7.942		BETA (3)		4.207 H	MACH =	1.3952	O	# 1986	589.12		439.71	14 A	•	2.9176
P	110RBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
.0000	.0080	.0230	.0460	.0700	.1120	. 1580	. 1680	.1770	.2040	.25.0	3010	.3780	076#.	e e
23.50	1.0304	******	.3736	.2763			.1061		0806	.0691	.0611	.1079	.0746	.070
		5255	五元 1337	.2316	. 1360		.0871 .0963		0.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05	.0535	.0662	.0853	.0358	.0536
		7764	.2823	2088	0714		. 0518 9.00.		. 0978 . 0978	1678	1383	1493	2014	
	.5370	1680 14680		1517	0619		3739		.0216	e14 e597	- 1874 - 1050	1931 2300	- 156 - 100 - 100	
		3896	3189	. 1403	1526		.7359	1	. 0955 - 2858	4458	-,3350	1874	0631	
								.500. 1500.	2002	-,4382	267	217	0619	
						i	¥.							
.4332	.5832	.3728	.3417	. 1935	. 1828	¥164.	*168 .		4013	4219	2786	2169	0783	
5526	.7290	.7790	.8210	.8790	.9210	.9600	0666	1.0180	1.0460					
.0979 .0979 1777	.1183 1771	. 1592 2689 1558	.1075 .1294 1058 0304	.0411 .0416 1486 2133	0087 .0019 1780 2046	0635 1051 2001 2082	1	.3629 .3629	.5108 .3737					
.0330	0609		0646 .2299 .2928	1269 0825 0453	2705 1773 1252	3745 2173 1939	3405 4088			,				

PAGE 121

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

					2.9183		57.0	. 1485	.1627													
					3		.¥970	. 1433	.1407	1083	.4365	1660	1109	0793								
â					FN/L		.3780	1398	. 1693	0255		2638	922.	2133								
(XEBBOB)					440.18		.3010	.1128	.1736		3116	+356	- 3683 -	2883 -								
					•		.2510	.1376	.1663	0820	•	- 1824	- 4144	4509 -								
			1.0460]] P		.2040	1558	5000	22.52			.3346 -	- 91146 -	1.0460	.5991						
SELAGE	•		1.0180 1		= 599.11		.1770					, 4058.	. 6834	•	1.0180	.5778	.4836					
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE			. 9 9 90	•	0		. 1660	1813	187 187 187 187	.1830 .1761	57.57.	.8678	.8265	.7912	0666.			į	. 368. 388.			
140A/B/C		В	.9600	3605	1.3944	G J	.1580							.6582	.9600	.0110	0350 1021	0957	- 23452	1.1744	3356	
- (841AC		r VARIABI	.9210	0646		I VARIABLE	.1120	1	2888	.2307 .1913	.1536	.1241		.1142	.9210			- 1975	2295	- 1475		
11-0730	4.207	DEPENDENT VARIABLE	.8790	.1748	BBB MACH	DEPENDENT	.0700	3572	. 3569 . 4 198	. 3315 . 3315 . 2905	. 1725	.1337		.1065	.8790		.1121			- 1085		
AMES	<i>*</i>	_	.8210	.3520	-3.888	Ī	. 0460	1681	. 502.7 7.20.	.5090 .4464 .4022	.2993	.2127		.2213	.8210			0907 0072	1190	40.5	6 t C	.4163
	[A (3)	Ж	.7790	.1150	TA C 13	Ж	. 0230	.6720	.7163	.6701 .6701 .6120	.4870	高高.		1555.	.7790	.2178		3196	0481	0486	1035	0810
	te BETA	1) ORBITER FUSELAGE	.7290	0185	90 BETA	11 ORBITER FUSELAGE	.0080	1.1459		.7625				.4767	.7290	585		2679	1958		ري ري	0750
?	= 7.942	1) ORBITE	.6520	0407	= 11.890	1 JORBITE	.0000	1.3853						1.3853	.6520	\$71.		1591	1001		000	0635
	ALPHA (4) :	SECTION C	x/LB	PHI 165.000 180.000	ALPHA (5) :	SECTION (X/LB	000	20.000 40.000	55.000 70.000 90.000	120.000	150.000	162.000 165.000 169.000	174. C30 180. 000	X/LB	PH1 .000						

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	2.9183		.5740	. 1433	1404								2.9183		.5740	.11378	
			.4970	1550	. 1238	1761 2025 7541	0968	0531	0508						0.€¥.	. 1959	007.V.
	FBN/L		.3780	. 1469	.1526	0956 1368 4396	2054	1963	2087				FRY		3780	.1477	. 1545
	440.18		.3010	.1213	. 1312	0785 1035	3975	3215	2785				440.18		.3010	3111.	1273 1533
	•		.2510	.1312	.1214	1239 1524 1857		4356	4701				.		.2510	.1266	1682
			.2040	. 1583	2701.	. 0622 . 1609 . 1114		- 3211	. 0544	1.0460	.5871 .4491				.2040	1468 1216 1816 19498	• •
	s 599.11		.1770				9	6300	•	0810.1	.5575 .4835		- 599.11		.1770		•
	a		. 1660	.1887	1958	. 1129 . 1117 . 3953	.7343	.7998	.8138	. 9990		3731	a		. 1660	1792	.0528 .0528 .0596
	1.3944	E CP	.1580						.7397	.9600	. 0356 - 1409 - 2296 - 3438	3199 2173 1746 3442	.3944	E CP	.1580		
		I VARIABLE	.1120	o W	0419 19419	1881 1881 1881 1881	.1250		.1234	.9210	. 0795 . 0898 . 2484 . 2724	.2473 .1663 .1141 .0328		VARIABLE	.1120	. 2039 . 1817	.0706 .0466
_	146 MACH	DEPENDENT	.0700	.3721	3654	2438 2081 1+72	华11:		.1095	.8790	.1310 .1187 2505 3123	1376 0988 0242 2230	.224 MACH	DEPENDENT	.0700	.3679 .3095 .2961	. 1563 . 1305
		_	. 0460	5887 57887	.4833 4000	3369 3026 2457	.2381		.2357	.8210	. 1933 . 2130 2208 1094	.0447 .0688 .3266 .4505	# #		.0460	.4819 .4445 .4052	. 231. 2096 3096
	TA (2)	Ę,	. 0230	.6725 0783	0.69. 0.69.	. 5172 - 5172 - 4264	.3193		.2608	.7790	.2336 .2456 4604 3104	0125 0018 1132 0589	£ 3	ليا	. 0230	.6619 .5338 .5919	
	97 BETA	R FUSELAGE	.0000	1.1537		.629 .			.4600	. 7290	. 3554 -	1215 0952 0406	3 BETA	FUSELAGE	.0080	.1361	.4818
	± 11.897	1) ORBITER	.0000	1.3957					1.3957	.6520	. 1625 . 1910 . 2367 1496	0977 - 0529 - 0384	11.893	1) ORBITER	0000.	.3816	
	ALPHA (5)	SECTION (X/LB	PH1 . 000 20.000	40.000 55.000	70.030 90.000 120.000	150.000	162.000 169.000 169.000		X/L9		135.000 150.000 165.000	ALPHA (5) =	SECTION 1	хлв	PH! .000 1 20.000 46.000	20.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

DATE 10 FEB 76

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DATE 16 FEB	EB 76		TABULATED	_	PRESSURE DATA	- 04148	_	AMES 11-073-1	_					PAGE	Şi
				AME	AMES 11-073(0A148)		-140A/B/C/R		ORB FUSFLAGE			(XEBB08)	606		
ALPHA (5)		H .893 BI	BETA (3)		4.22.4										
SECTION	(1) ORBIT	1. ORBITER FUSELAGE	AGE		DEPENDENT VARIABLE	T VARIA	BLE CP								
X/LB	.0000	.0000	.0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	.2510	.3010	.3780	0.4970	.5740
PHI 140.000 150.000 151.000			.2881	.2551	.0796	. 0929		.6528		0740	477	.3625	1825	0706	
162.000 165.000 169.000				, s, cs				.7577	. 5542 1	3323	4554	2912	2062	0620	
174.000	1.3816	.4336	. 2569	2518	. 1222	1081	.6659	.6183		4321	State -	2991	2138	0829	
X/LB	.6520	.7290	.730	.8210	.8790	.9210	.9600	0666	`1.0180	1.0460					
PHI .000 70.000 90.000	. 1523 . 1655 - 2254 - 1251	.2013 3373 2314	2. 38 2. 38 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	. 2276 - 1454	. 2475 - 3069	. 3049	0045 0456 2365		.5545	.5915 .4479	•				
120.003 120.000 135.000 155.000	0767 0513 0482 0630	0470		. 1458 1374 5806 1584			• •	3764							
ALPHA (6)		15.905 BK	BETA (1)		-3.863 MACH	E	1.3948	0	= 599.11	1.11	د	438.9	FINAL	•	2.9186
SECTION ((1) ORBITER	ER FUSELAGE	AGE		DEPENDENT	T VARIABLE	XE CP								
X/LB	. 0000	. u080	.0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
FH	1.3146	1.2439	0.95.	.5967	.4657.			7486-		.2366	.2047	. 1837	.e107	.2195	.2302
40.003			9595	.63. 63. 63. 63. 63.	5036	7.5.5. 7.4.7.5.		3047		.2167 .2167	.2263	8715.	.2433	.2238	8 8 8
90.08 20.08 20.08 20.08		.6982	. 5600 . 3997	.4386 .3660 .2163	.3196 .2660 .0749	. 1545 - 1545 - 1545		. 1687 . 1483 . 2961		858 858 858 858 858	0801 1024 1338	0241 0314 3079	0238 0638 5226	1143 1393 4336	
150.000			.2370	.1035	.0561	.0511		.7873	203	0341	5198	4881	3167	3167	
165.000 165.000 174.000							.5722	. 7906	.6392	3853	4742	4098	 140	- 1254	

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

5.035 BETA (1) = -3.863

ALPHA (6) = 15.035

DATE 10 FEB 76

SECTION (1) ORBITER FUSEL AGE	1.3 ORBITE	R FUSELA	<u>G</u> E		DEPENDEN	DEPENDENT VARIABLE	AE CP								
X/LB	0000	.0080	. 0230	.0460	.0700	.1120	.1580	1660	0771.	.2040	.2510	.3010	3780	0.6970	.5740
PH1 180.000	1.3146	.3098	. 1469	. 1344	.0428	. 0552		. 7233		- 1244	4739	3141	202	0783	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	0096	0666.	1.0180	1.0460					
PH1 - 000 -	.3112 .3112 2644 1518	. 3188	.3196 .3571 5301 3863		. 2742 . 2140 5477 2705	. 1526 . 1565 3944 3674		3178	.5713	.5101					
120.000 135.000 150.000 165.000	2915 1301 0829	1972 3305 1101	1201 0453 1973 2070	.0826 .0252 .1531 .3620	1928 2105 3704 .1533	2790 1893 2743 0679	2920 32240 3752	- 3239							
ALPHA (6)	• 15.918		BETA (2)		.144 M	MACH .	1.3948	ø	s 599.11		•	439.94	FRVL	•	2.9186
SECTION (1) ORBITER FUSELAGE	GE		DEPENDER	DEPENDENT VARIABLE	RE CP								
X/LS	. 0000	.0080	.0230	.0460	. 0700	.1120	. 1580	.1660	.1770	.2040	500 500 500 500 500 500 500 500 500 50	3010	3780	078#.	5740
PH;	1.3232	1.2521	Book.	.6037	.4762	i		.2662		. 24.33 53.33	.2093	189	7113.	.2282	6 23.
20.063 40.000			. 8 026 . 7635	.5924 .5619	. 4387	3141		3.65		1519	.1538	.1734	.2067	.2013	. 2236
55.000 70.000 90.000 120.000		.5638	. 5247 . 5247 . 4668 . 3461	.4097 .3245 .2696 .1668	. 2239 . 1804 . 0605	. 1382 . 1382 . 0874		.0959 .0959 .3964			1182 1467 1853	0835 0859 3398	0883 1230 5303	2037 2012 3305	
150.000			.2223	.1399	.0531	.0626		.041	07+0.	- 1721	5009	- 4495	P. X	1101	
165.000 165.000								.7309	5378	. 3543 .	4568	3395	1896	0712	
174.000	1.3232	989	. 1550	.1537	.0488	. 0645	5	.7489		4645	4901	2903	1813	0586	
X/LB	.6520	.7290	.7790	.8210	.8790	.9213	.9600	0666.	1.0180	1.0460					
PH1 .000 .40.000	.2631 .2873	.2961	3474 3840	3017	. 2435 3255	.1611 .1594	.0810 .0187		.8616 .5743	.5161					

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<u>C</u>							2.9186		5740	.2213	26							
PAGE							•		0784.	.2186	.1677	2376 2557 2165	0820	0573	0753			
	8						PR/L		3780	.2160	.1655	156-	. 1881	1831	2062			
	(XEBB08)						+339.94		.3010	. 1869	.1155	1350 1393 3743	3909	2978	3100			
							<u> </u>		.2510	.2011	.0577	1506 1796 2331	4985	46!17	4593			
				1.0460					.2040	. 2253	. 0743	- 00.0 - 00.0 - 00.0 - 0.00		3597	4513	1.0460	.5143	
•	JSELAGE			1.0180			- 599.11		.1770					. 5258 . 5258		1.0180	.5483 .5483	
11-073-1	-140A/B/C/R ORB FUSELAGE			3666.	980+	- 3943	o		.1660	929	1604	2020. 0220. 03150. 8883.	.5912	.6825	.7227	0666.	9	- #598 - #598
- DAI 48 (AMES 11-073-1	140A/B/C		LE CP	.9600	2187 3054 4135	3346 2366 2758 3713	1.3948	AE CP	.1580					. }	100	.9600	. 0623 . 0134 2391 4966	4035 2923 2277
			IT VARIABLE	.9210	4304 3620 4471	2550 1839 2369 0819	MACH =	IT VARIABLE	.1120		.2929 .2372	. 0603 . 0630 . 0230	.0463		.0479	.9210	. 1537 . 1487 3806 3796 5361	2850 2650 1352
PRESSURE DATA	AMES 11-073(0A148)	144	DEPENDENT	.6790	5241 3731 - 4106	1930 1195 2774 2324	4.250 M	DEPENDENT	.0700	.4652	.4062 .3616	1946 1348 1946 0403	.0396		.0660	.8790	. 2025 . 2073 . 4828 . 4032 . 5151	1811 1857 0284
	AMES			. 3210	4743 2589 0905	0246 0074 .2467			.0460	5926	.5509	. 2822 . 2822 . 1827 . 1827	.1353		.1627	.8210	.3104 430 2733 1822	1924 . 0449 . 2269
TABULATED		BETA (2)	lGE 1	.7790	5517 4115 2962	0930 .0022 1958 1076 0836	BETA (3)	N GE	.0230	7875	.7487 .6538	4924 4045 3793	.2016		. 1520	.7790	. 5185 - 5185 - 5185 - 4132	0518 1821 1212
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AMES 11-073(GA148) -14JA/B/C/R ONB FUSELAGE

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

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TALLATED PRESSURE DATA	AMES 11-073(0A148)	236	DEPENDENT	.0 700	.4388		.5199	.8790	2016 2069 .0763 .0064 0693	1533 0529 . 0639 . 2759	-3.903 HJ	DEPENDENT	.0070	.0842 .0683	. 3390 . 3390 . 4016	.4023	
EO PRESS	AMES	#		.0460	.5649		.6158	.8210	1201 1078 .2853 .2714 .1908	.4164 .4395 .5273			. 9×60	.1553	2347 2687 4313 4726	.5335	
TAE A.AT		(%) VI	မွ	.0230			.7390	.7790	0635 0564 .1354 .2144 .2973	.3126 .4039 .4274 .4398	BETA (1)	¥	.0230	4785.	.6270 .6270 .6815 .7327	.6825	
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1 5		-4.025	1) ORBITER FUSELAGE	0000			1.3957	.6520	0160 0188 0188 0529	.0097 .0090	0.	11 ORBITER FUSELAGE	.0000	1.4153			
DATE 10 FEB 76		ALPHA (1)	SECTION (X/LB	PH1 140.000 150.000	162.000 165.000 165.000	159.060 174.000 180.000	x/LB		1:0.000 1:20.000 1:35.000 1:50.000 1:65.000	ALPHA (2)	8	X/LB	PH1 .000	25.000 25.000 26.000 26.000 26.000	150.000	151.000 162.000 165.000 169.900

DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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		.1770		1.0180	.2333		# 65		.1770		•	,	<u>.</u> 63	÷.		1.0180	. 2009 2009
		. 1860	. 8662	. 9990	į		0		. 1660	.0161	15. 15.	.1698 .2000 .4137	.8209	<u> </u>	.9012	0686.	
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-3.903	DEPENDE	.0700	3973	.8790	1193 1382 .0692 .0457	0487 0271 .0510 .3650	.152 m	DEPENDENT	.0700	.1109	.2035	. 2320 . 3320 . 3095	.3697		.¥075	9628.	1228
		.0460	H978	.8210	0501 0477 .1648 .1489	. 3689 . 3689 . 3689			.0460	. 1462 1492	. 1935	.3186 .3630 .4560	.5081		. 5029	.8210	0438
BETA ()	AGE	.0230	.6088	.7790	.0061 0169 1770 0587	3268 3809 3705 3591	BETA (2)	lge GE	. 0230	3192	.5266	. 5578 5056 5057 5054	.6389		.6210	.7790	.0116
.013 8	er fusel	.0080	.8815	.7290	.0090 1039	0163 .0372	.017	DORBITER FUSELAGE	.0080	5757.		.7549			.8660	.7290	.0183
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ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 180.000	X/LB	PH1 .000 40.000 70.000 99.000 105.000	120.000 135.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	PH1 .000 20.000	55.00 25.00 26.00	70.000 90.000 120.000	152.000	165.500 165.000 169.000 174.000	180.030	X/LB	PH1 . 000 40.000

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	. 9210 .9210 .0791 .0902 .1670		r VARIABI		.5015	1800 1385 1175 2657 2872 1731
PRESSURE DATA - DAT! AMES 11-073(0A148)	135 790 135 226 227 014 0128	₹ .	DEPENDENT VARIABLE 5700 . 1120 .	1112 00743 0966 1385 1385 1368 2139	.3928	- 1231 - 1298 - 0015 - 1505 - 1697 - 0801 - 0810
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DATE 10 FEB 7	ALPHA (2) = 52CTION (1) X/LB PHI 70.000 105.000 1105.000 1135.000 135.000	, ,	ALPHA (c) = SECTION (1) X/LB	PHI - 000 20.000 40.000 70.000 90.000 120.000	150.000 151.000 165.000 165.000 17.000	PH1

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	110881	.6520	0005		1109811	.0000		1.4033									1.4033	.6520		.0353				- 2982	0207	0068
	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 165.000 180.000	ALPHA (3)	SECTION (1) ORBITER FUSELAGE	X/LB	Ē	20.000	40.000	55.000 70.000	90.000	120.000	150.000	151.009	165.000	159.000 174.000	180.000	X/LB		000 - 04			110.000	135.000	150.000	

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-073-1) ORB FUSI	. 1680	0468 0532	1258 1308 1308 1308	.787.	.8611	. 9990	g		•	1660	.0375 .0313 .0685 .118	3359
TABULATED PRESSURE DATA - 0A.48 (AMES 11-073-1) AMES 11-073(0A148 -140A/B/C/R ORB FUSELAGE) A (2) - 148 MACH : 1.2463 Q - 59	0 0 0 0 0 0 0	• •		,	.9305	.9600	. 1966 1158 1158 2020	. 2726 . 2049 . 1658 . 3862	1.2463	LE CP		
0A.48 (146 -14 , 1.	VAR' ABLE	075E	25.55.55 25.55.55 25.55.55 25.	.3976	154	.921	1048 146 154 154 154	2828 1559 1576 10726	8	T VAR AB	888	EN.
SURE DATA - 0A. S 11-073(0A148	DEPENDENT VAR ABLE	1568 1549	2027 2337 2215 2353	.24.75	2796	.8790	0405 0573 0661 1052	0482 0220 2232	4.207 NACH	DEPENDENT VAR ABLE CP	1898 1427 1691	1427
PRESSURE AMES 11-	. 0460	2725 2699	3372 3372 3368 3541	••	.4011		0331 0490 0053 0235 0535	.0913 .2799 .4034	, 1		g signifi Establish	Sign Sign Sign Sign Sign Sign Sign Sign
ABULATED	. 0230 .		5700 5700 5700 5700 5851		2205	.7790	. 2918 . 2968 . 2944 . 1643	87.55 87.55 87.55 87.85 87.85 87.85 87.85	BETA (3)	냂	4109 4028 4028 4478 4661	.4878 4984 4984
H	FUSELAGE		7817.		7307	7290	. 1881 -	3550 3450.		R FUSELA	. 8760	.3689
5 3.907	1) ORBITER FUSELAGE		·		9	.6520	959 950 970 9776	. 5210 . 6909. . 0037	3.911	110ABITER FUSELAGE	0000.	
DATE 10 FEB 76	8	1 000	85.85 86.98 90.98 90.98 90.98	120.080 140.080 150.080 181.080	•	-		2000 0	4 P44 (3)	ᅙ	7/LB PHI 20.000 10.000	70.000 90.000 120.000

DATE 10 FEB 76	87. B		TABULATED	ITED PRE	PRESSURE DATA	7A - 0A148	IB (APES	(AMES 11-073-1	-					PAGE	<u>ặ</u>
				¥	WES 11-073(0A148)	3(0A14B)	-140A/B/C/R	88	FUSEL AGE			(XE8809)	309)		
ALPHA (3)	,	3.911	BETA (3	3) =	4.207						•				
SECTION (1) ORBITER	ER FUSELAGE	LAGE		DEPENDENT	INT VARIABLE	IBLE CP								
X/LB	.0000	.0080	. 0230	. 0460	.0700	.1120	. 1580	. 1860	0771.	.2040	. 851A	.3010	3780	.4970	5740
PHI 140.000 150.000 151.000			806h.	.3851	.2091	. 3459		.7216	.4357	- 2698 - 1092	.5132	32TT	2213	0586	
165.000 165.000 169.000								.8333	.5130	3881	5248	2799	2468	0629	
174.000 180.000	1.3970	.7106	.5006	.4137	.2687	.3942	.8936	.8504		4967	++9+	2696	2306	0720	
x/LB	.6520	. 72ġo	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.046					
PHi 50.000 70.000 90.000 105.000	.0148 .0622 0731	.0786 2026 1362	.0852 .1004 2101 0239	.0379 .0530 .0146 .0141	- 0410 - 0545 - 0848 - 1314	1045 0723 1704 1829	1904 1657 2255 2829		. 2892	.4134 2005					
120.000 135.000 150.000 165.000	.0100 0047 0110	0179 0512 .0898	1587 2849 2849 2849	0259 .2302 .2377	- 1925 - 1407 - 0499 - 1802	3385 2177 1512 0591	4257 2653 2322 4049	. 3738							
ALPHA (4)	= 7.9	7.933	BETA (1)	3	.903	MACH	1.2463	ø	= 599.67	.67	•	551.57	RNAL		3.0282
SECTION (1) ORBITER FUSELAGE	CR FUSEL	.AGE		DEPENDENT	NT VARIABLE	BLE CP				1				
X/LB	0000	.0080	. 0233	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	.4970	.5740
PH1 .900 20.000	1.3745	1.0024	5379	.3722 .938	• •	1502		1071		. 0928 828	9160.	. 0823	.0886	.0+0.	.038
40.030 55.000			. 6966 . 7134	¥44.	• • •	23.72		1741		1118	. 1206	.0788	.1100	. 0443	.0631
70.000 90.000 170.000		.8109	.6791 .6510 .5662	.4526 .4352 .3881	.3062 .3062 .2552	.2354 .2318 .2318 .2318		2492 2877 4952		1662	1878 2075 2125	0638	0693 1360 4389	1555 1854 3053	
150.030			.4507	.3352	.1786	.2318		.8547	. 5952	2123	5646	4810	2372	1217	
165, 969 165, 009 163, 009 174, 000							2069.	9088.	.6228	428!	5245	4129	2238	0896	

DATE 10 FEB 76	TABULATED PRESSURE DATA - GAI48 (AMES 11-073-1)
•	AMES 11-07310A148) -140A/C/8 088 FIRET ARE

PAGE 135

			9	•				•		ē	10	9						
			.5740	•		•		3.0282		.57v0	. 288	9.50						
	. •		.w970	0698				٥		. 4970	.6.7.	.0326	2069 1826 1835	0770	0563	9498		
(60			.3780	2329				FW/L		3780	.0948	9190.	1948 1917	2019	e.g.	2262		
(XEBBOB)	-	•	.3010	3284				551.57		.3010	.0913	.070	1,170 1,1776 1,586	4317	- W-05	3074		,
			.8310	5168				•		.2510	.0971	.1058	2780 2780	. 5672	4919	5653 -		
			.2040	. 5236	.0460	.4929 .3601		67		.2040	1026	1007	0920 0204		- 4024	- 5576 -	1.0460	.4857 .3478
JEEL AGE	•		.1770	•	1.0180	.3974		- 599.67		0771.					7.96.	276-1-2	. 0180	.4977 .3964
78 ORB FL			.1660	8100	1 066F		2721 2721	0		. 1660	505	1458	1928 2363 4382	.7670	.8280	.9192	1 0566.	
5 11-073(0A148) -140A/B/C/R 098 FUSELAGE		LE CP	.1580	ı	.960	0410 1485 0509 1380	2933 1831 1604 3894	1.2463	E CP	. 1580					Š	9	.9600	0355
OA148) -		DEPENDENT VARIABLE	.1120	. 2349	.9210	0280 .0083 1289 1718	2499 1587 0483	•	T VARIABLE	.1120	1395	1853	1458 1451 1993	.2185		r.	.9210	0261
11-0730	3.903	DEPENDEN	.0700	.1814	.8790	.0241 .0241 0914 1548	1174 0907 .0169 .2422	.143 MACH	DEPENDENT	.0700	777.9	27.53	. 2360 1901	.1455		. 1689	.8790	9920
AMES	:		.0460	3176	.8210	. 1258 . 1313 . 1573 - 0268	.0685 .1576 .1966		_	.0460	1182	39.5	.3+56 .3399 .3330	.3375		.3065	.8210	.1300
	=		8	9	0			ô		_						_	g	. 1 <i>822</i> . 1 <i>977</i>
		Ħ	.0230	.7658	.7790	1.00 1.70 1.00 1.00 1.00 1.00 1.00 1.00	.0838 .0830 .0800 .1119	-	Ħ	.0230	20.00	52.52	.5665 .5490 .5003	.¥258		.382	.7750	= =
	BETA	R FUSELAGE	.0080	.6057 .365	.7290 .779	.1283 .1654 .1709 .2655 - 2657 .2735 - 2735		BETA (P FUSELAGE	.0080 .0230		5119.	.5665 .6734 .5490	1034·		.5919 .382·	27. DEST.	B1*1.
		1) ORBITER FUSELAGE		•			.07820346 .1024 07820346 .0800 04750659 .1119	-	DORBITER FUSELAGE		1.3775 1.0085 2475.1	ST 19.		10 13 ·		•		

0A148 (AMES 11-073-1)
TABULATED PRESSURE DATA -
DATE 10 FEB 76

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

PAGE 135

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			•			3.0282	Ì	.0386	.0238							
						•	601	6449	.0017	2136	0541	. 0520	0668			
(60					į		7		.05+3	. 1915		2317	2388			
(SEBB03X)						6:18	3010	.09E	.0538	1907 5020		3136 -	3210 -			
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.4		0840			F.00 F.7		.2040	.0830	.0523 .0523		1858 4213	4285	5388	1.0460	.4920 .3394	. .
r Obel Ade		1.0.80			ě		0771.					. 4969		1.0180	.3785	
B		J566		3884 3627	a	;	.1660	946	9919	1779	.7001	.8035	.6208	0666.		4424 3777
	VOLE CP	.9600	1276 2382 2942	3709 2529 2025 3936	1.2463	BLE CP							1058	.9600	0374 1465 1937 2890 3290	
	DEPENDENT VARIABLE	.9210	1943 2057 3271	2005 1266 0634	MACH =	NT VARIABLE	.1120	173	1226	.0605 .0605 .1321	3771.		.2096	.9210	0338 0138 2524 1972	2583 2467 2050
147	DEPENDE	.8790	1230 2305 2998	1620 0922 0242	4.208 M	DEPENDENT	.0700	0179. 88.50	. 2272 . 1936	. 1560 . 1393 . 1339	.1112		. 19%	.8790	. 0453 . 0266 - 1529 - 2323 - 3651	2157 1529 0946
• 6		.8210	1144 0160 .0487	.0321 .2248 .4332			.0460	3820	.3313	.2417 .2603 .5678	.3120		.3358	.8210	. 1268 . 1436 1070 0446	0905 .2318 .3379
BETA (3		.7790	3240 2730 0405	. 1036 . 1102 . 1491 . 1817	BETA (3)	AGE	.0230	.5345	. 5208 . 4858	. 4578 . 4532 . 4592	.3925		.3849	.7790	.1770 .2018 3220 1439	. 1689 . 2256
7.889	35	.7290	2560	0961	7.857 8	1) ORBITER FUSELAGE	.0080	.9953		523			.5700	.7290	.1440 2907 1697	0693
	11000011	.6520	1435	0718 0254 0185			. 0000	1.3661					1.3661	.6520	. 0767 . 0957 1198 0632	0155
ALPHA (4)	SECTION	X/LB	PH1 70.000 90.000 105.000	135.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 . 000 20.000	55.000	52.000 120.000 140.000	150.000 151.000 152.000		190,000	X/LB		126.003 135.000 150.000

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	Δ.					FN/L .		.4970	.1197	245	ď	-102	1618	1085		1993		
	(XEBBOB)							.3780	.1604	.1762	.06%0	1263			i i			
	Ę,					552.74		.3010	.1812	. 1538			50%	4545 -	1. 18. 2. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18.			
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			ě					.00% 0.00%	.1592				.1162	1174	5550	1.0460	. 5502 . 4055	
	FUSELAGE		1.0180			14.886 -	į	0//1:			·		.5773 5971	•	ï	1.0180 1.0	.5985 .5	
- DA148 (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE		.9990	•	c	,	15so	3	. 1960 . 1960	1946	2326	.4607	• •	.6461	. 7589	.9990 1.0	ii, s	6 8
B (AMES	-140A/B/	LE CP	.9600	4217	1.2447	် မ	.1580				•	•	•	. 987T.		6. 0098	8899	-7 3589 3208 7
- 0A14	. (841AC	DEPENDENT VARIABLE CP	.9210	1397		VARIABLE	.1120		-2312 -2966	9 S. S.	1934 1580	.19tB				•		• •
MESSURE DATA	AMES 11-073(0A148) 4.200	PENDENT	.8790	.1152 -	MCH	DEPENDENT	. 00700	3583			• •	•			. 1219			
_	AMES 11		.8210	. 9254.	-3.885	3				•	1715	.1084		á	.8790	i		
2	(3)		8. 08//.		::		.04e0	8 .4789	_			.2236	,	.2281	.8210		. 2234 . 2234 2160 0399 0008	. 1615
	EETA .	SELAGE 1907		. 1809 . 1498	BETA	ELAGE	. 0230		15. E. C. C. C. C. C. C. C. C. C. C. C. C. C.		.4703	.3289		.2453	780	į	.3139 .3139 .4168 -3683	0205 0108 0586 .0379
	7.857	.6520 7200		5 .0019	* 11.893 BETA		9800.	1.1096		.7439				.4569	.7290	ä		-2143 -2152
		•		, i 9 ¥		0000		1.3181						1.3181	.6520	.1822	- 2585 - 1788	. 1963
	ALPHA (4) SECTION (X/LB	PHI	180.000	~	X/LB	3	. 000 . 05 . 000 . 03	55.000 70.000	30.000 120.000	150.000	151.000	165.000 169.000 174.000	180.000	87/x	000		170.000 135.000 150.000 165.000

2			F/ 35 - 5		orc.	1355	.1331													٠ د د د د	É	200	1043	
PARE		=				. 1223	101.	2266	500. 100.	. 087¥	0599	- Out 2	}							7	1000	. 151.	0639	- 3096 - 2056
*1000				1	09/5:	.1579	1451.			25.25	2025	1983									Ş		. 1087	
	(veragne)	7 CM			2105.	. 1462	.1275		1587	4784	- 3640 ·	052							45.0		4010	·	. 1660	1807
		۰		ă		ž.	.1509	1792		5988	5229	- 5852							•	•	5.00		-0983	21592761
		590.41		0		.1714	1217	3	9482	3216 3216	4521	5765	1		. 1985.				9		2040	0641		1058
<u>-</u>	FUSELAGE	93		1770						9	5		a Caran		.5894 .4766				14.665		0771.			
11-073-				1660		.1908 .1908	. 1.986 1.30	1224	.4232	.7446	.7805	.7755	0666	}		- 1633 1845	!		o		. 1660	- Z	1272	.0569 .0589
0A148 (APES 11-073-1	-140A/B/C/R ORB	1.2447	BLE CP									. 78C4	.9600)) !	. 0198 0994 1051 2771	3892	2912 2317	•	1.2447	8 9	. 1580			
•	S(0A148)	MACH .	'NT VARIABLE	.1120		.2183	. 1519	1521	1305	. 1293		. 1296	.9210		.0319 .0509 .2720 .7415	3075	2315 1720 1051		•	VARIABLE	.1120	900	1655	.0540
PRESSURE DATA	APES 11-073(0A148)	. 145 H	DEPENDENT	.0700	ļ	37.6 3.64 3.63	. 2985 2913	. 1986 . 1986	.1361	. 1855		.0924	.8790		. 1229 . 0969 2499 3532		1428 0720 1582		.220 MACH	DEPENDENT	.0700			.1331
_	APE	. (S		.0460		9884. 1684.	3956	.3367	2647.	. 2523		.2355	.8210				2 <u>5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</u>	.5450	. 4.0	_	.0460	.4832 4380	.3958 .2747	. 2002. - 2002.
TABULATED		BETA (2	AGE	. 0230	Ę	.6762 5978:	.6127	2.00 5.01	.¥100	.3168		.264t	.7790		. 4264 - 4264 - 3507	7510.		2002	'A (3)	w	.0230	.6536 6248		
		11.849 B	ER FUSELAGE	. 0080	5			.6118				. ¥235	.7290		.3014 3819 2609	1363	1960	20 50	BETA	FUSELAGE	. 0080	1.10%		.4563
97 B:			1.10AB17ER	.000		R X						1.3250	.6520		. 2005 - 2005 - 2386 - 1449	0927	0646	7.50	848.11	130RB17ER	. 0000	1.3107 1		
DATE 10 FEB		ALPHA (5)	SECTION (хлв	144 300	20.000 40.000	55.000 25.000	90.000	140.000 140.000	157 157 158 158 158 158 158 158 158 158 158 158	169.000 174.000	180.000	X/LB	ã	000000000000000000000000000000000000000	120.000		3	# (C) ##	SECTION 6 1	97/		32.55 33.55 35 35 35 35 35 35 35 35 35 35 35 35 3	97.000 120.000

DATE 10 FEB 76	3 76		TABLLATE	ED PRESS	TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)	- 04146	C AMES	11-073-1	-					PAGE	139
				AMES	NES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	04148)	-140A/B/C	/R ORB F	USELAGE			(XEBB08)	60		
ALPHA (5) =	= 11.848		BETA (3)	<i>;</i>	4.220										
SECTION (1) ORBITER FUSELAGE	1.10RB1TE	R FUSELA	ige		DEPENDENT VARIABLE CP	IT VARIAE	KE CP								
X/LB	. 0000	. 0080	.0230	.0460	.0700	.1120	. 1580	.1660	.1770	.2040	9169	3010	.3780	. 4970	0.KG.
PH1 140.000 150.000			.2832	.2230	.0533	.0887		.6578	. 528	1580	6039	4110	1919	0627	
162.060 165.060								7565	.4812	4637	5516	3377	62	2530	
174.000	1.3107	.4671	.2611	949	101.	1001	.7429	7943		5691	5359	3522	2235	069%	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	9880	1.0180	1.0460					
74. 70.000 70.000 70.000 105.000 135.665 155.000 165.000		8785. • 3866. • 5519. • 1107.	2880 24296 24296 26296 270 270 2713 270 270 270 270 270 270 270 270 270 270	2051 2186 2186 2186 2186 2368 3368		.0191 .0299 2793 4574 4674 4010	. 0013 - 1121 - 11810 - 2850 - 3027 - 3027 - 3027		. 5858 . 4601	.3911 .3911					

5	t -		. 100 1.100	3.1914		OFFE.	A150 -	,	- 25B6																
PAGE	05 AUG			•		.4970	8	}	- 1588	0166	£10	- G444	0517		?	第5.	•								
	6	DATA	SPOBRK L-ELVN HACH	PA/L		.3780	9	!	- 1645			. 138				.2365									
	(XE8810)	PARAMETRIC DATA	.000 .000 .000	709.53		3010	9151		2103		3339	•	- 3408 -			2387 -									
		4.	RUDDER = BOFLAP = R-ELVN =	•		938	ggg		. 1947.		.367		- 5236 -			4505									
			208 208 3-	598.52		.2040	1080	1165	900 900 900 900 900 900 900 900 900 900	0257	0872	0269	3007		900	5793	1.0450		1925	<u> </u>					
_	ORB FUSELAGE			- 596		.1770								.6001			1.0180		.3320	1761.					
11-073-	YR ORB F			ø		. 1660	4960 -	0720	- 1694 25	1.52	1.58 1.58	. 3961	.8299		.8865	.8183	0666					3618			
3 (APES	-140A/B/C/R			1.0977	LE CP	.1580										.9783	.9600		1652	0292	0554			900	4066
A - 0A14	1*-073(0A14B)		828 848	MACH	DEPENDENT VARIABLE	.1120		1400	0817	238.	8162	. 4885.	.5754			.5728	.9210				0792			. 1065	
PRESSURE DATA - DATHB (AMES 11-073-1			5800 IN.	-3.883 M	DEPENDEN	.0700	9220	0391	0162 1821	2885	3649	1/84.	.5492			.5390	.8790				0505 0505			14.0	
_	AMES		1076.6800 .0000 375.0000			.0460	.0632	0429	.0816 .736	3837	. 4695 2505	C	.6421			.6130	.8210		- 155!	Ē	3507	Ş		5274	.6579
TABULATED		7	WHRP THRP ZHRP	BETA (1)	351	. 0230	1256	1578	## E	5242	.782. E.E.	7 P/ ·	.7793			.7242	.7790		0783	96.	3100		1000	5230	. 15 E. 17 E
		REFERENCE DATA	%.FT.		R FUSEL	.0080	5487	! !		!	.8807					.97.k	.7290		0326	.0605	. 1201	Š	E013.	.2873	7.465.
B 76		REFE	2690.0000 474.8000 936.0580	-4.037	(1) ORBITER FUSELASE	0000	1.3160									1.3160	.6520		020	1357	. 1553	1666	777	1689	1757
DATE 10 FEB 76			SAEF = PLACE = BAEF = SCALE =	ALPHA (1)	SECTION (X/LB	PH1 000.	20.000	55.000	70.000	90.000	140.000	150.000	162.000	169.000	180.000	X/18	EE	000.	70.003	30.000 105.000	110.000	135.000	150.050	189.000

143		3.1914		offic.	0378					3.1914	ů.	9480. 4010.
PAGE		•		4970	0983 0283 0243 0357	0283	0229			•	978	1155 1031 0528 0505 0528
	10)	RNA		.3780	- 1319 - 1488 - 1184 - 1114	2136	2357			HAV.	.3780	1415 1455 1160 1270
	(XEBB10)	709.53		30:0	. 1489 - 1950 - 2496 - 4124	2905	2126			709.53	.30:0	16 199v
				.25	0912 1977 4778 4387	5198	5571			1	0155.	6
		598.52		.2040	0547 0890 1869 1149 0955 2046	4293 4293 4550	4929	1.0460	3406 77703.	598.52	.2040	0521 1442 1459 1559 3072
•	FUSELAGE	= 598		0771.		.5336		1.0180	.3150 .1869	- 598	1770	
(AMES 11-073-1	88	ø		. 1660	0144 0376 1668 0237 0483 .0483	. 7626	.8522	0666.	3904	O	.1560	0265 0251 0465 0053
	-140A/B/C/R	1.0977	LE CP	.1580			.9678	.9600	- 1425 - 3182 - 1105 - 1105 - 1346 - 1916 - 2319 - 0704 - 1198	1.0977	LE CP.	
- 0A148	-073(04148) -	MACH	IT VARIABLE	.1120	0434 0421 0519 0519 1699	.5376	. 5854	.9210	- 2998 - 2579 - 0779 - 1342 - 1813 - 1897 - 0908 - 0255	MACH -	IT VARIABLE	0629 0326 .0184 .0948 .1088
PRESSURE DATA	=	.155 MA	DEPENDENT	.0700	.0218 0158 0098 .1204 .2039 .2712	£085	5495	.8790	. 2348 . 0309 . 0309 . 0216 . 1116 . 0912 . 0912	.235 M	DEPENDENT	
	AMES			.0460	.0632 .0749 .0749 .1853 .2526	103	.6229	.8210	- 1599 - 1460 - 3091 - 3178 - 3178 - 3275 - 753 - 753 - 5839	#	Use	7570. 0557. 0540. 1510. 1750. 7523.
TABULATED		BETA (2)	Æ	. 0230	1352 1522 1529 1529 1577 15149 15892	.7315	.7389	.7790	2001 2001 2000 2000 2000 2000 2000 2000	BETA (3)	95. 02.40	
			1) ORBITER FUSELAGE	.0080	.5504		.9723	.7290	6251. 1271. 1271. 1274. 7405.		R FUSELAGE	.5304
5 5		= +.035	110R91TE	.0000	1.3236		1.3236	.6520	. 0569 . 1313 . 1313 . 1539 . 1720 . 1860 . 1941	= -4.042	1) ORBITER	1.3060
DATE 10 FEB 76		ALPHA (1)	SECTION (X/LB	25.000 25.000 25.000 27.000 26.000	150.000 151.000 161.000 161.000 161.000	174.000	X/LB	PH1 40.000 70.000 105.000 110.000 135.000 150.000 165.000	ALPHA (1)	SECTION (PH1 PH1 20.059 16.059 76.060 76.009 123.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

(XE8810)	۸ .
WES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	
APES 11-	4.235
	BETA (3) = 4.23
	BETA
•	-4.042
	ALPHA (1) =
	ALPHA

		5									3.1865		575	0387	-030	•		•	*	
		0.64	9500	- 0495	0478						•		. vg70	1076	-119	.0586	.198			
		3780		2645	2882	•					FRVL		.3780	. 1883.	6945	1642				-
		.3010	£735	2373	2390						20.70 7		.3010	- 1005 -	- 1214 -	2358 2510	. •			
		9310	-,5382	6900	4351							. •	0153.	- 038c -	. 1240 -	3874				
		2040	4785	1,4327	5805	1.0460	.3020 .1872	,			8		2040	866	21.78	0239	•	. 0304		
		1770		8644	•	1.0180	.3206 .1528			**	598.85	· · · · · · · · · · · · · · · · · · ·	1770	•	5. 12	• •				
		.1660	.6712	9108	.8351	0666		.4532			ø		.1680	0170	0300	1933	.8083			
	LE G	.1590	· . ·		.9107	.9800	. 1441 . 3878 . 1915 . 2175	8630	. 1333 . 1333		1.0996	E CP	1580	:					.9376	
	T VARIAS	.1120	¥7.4.		.5735	.9210	3881 18821 18821 7472	3080	1571		*	VARIABLE	.1120	å	50.0	3162	. 5069		٠.	
2	DEPENDENT VARIABLE CP	.0700	.4513		.5345	.8790	2342 2674 0179 1803	2876	0582 1391		399 MACH	DEPENDENT	.0700	0800	966	10 4 6 10 4 6 10 4 6 10 6 10 6 10 6 10 6 10 6 10 6 10 6 10	8844			
ř.		.0460	1966		6119	.8210	- 1534 - 1533 - 2766 - 2906 - 2906	100 E		.6348	-3.899		.0460	. 1045 aca	2145	1.007 1.007 1.007	5384			
) - -	띯.	.0230	.6828		.7281	.7790	0842 0771 2165 2659	3453	.4612 .4707	. 1905	G _ Z	H	.0230	025	4612 5883	.653! .69*! .7166	.6725			
¥	R FUSELA	.0080	Tr.		9468	.7290	0300 -1162 -1703	.2271	.2788	: : 35	PETA	? FUSELA	.0080	3842		. 198	•			
	1) ORBITE	.6000		·	1.3060	.6520	.0590 .0319 .1518	.1793	.1946 .1782	1790	020.	1) ORBITER FUSELAGE	0000	1.3303				•		
	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 140.000 150.000 151.000	165.000 165.000 169.000	174.000	X/LB	7HI 40.000 70.000 90.000	110.000 120.000 125.000	150.000	Ĭ	ALPHA (2)	SECTION (хлв	1HF .000.	40.000 20.000	70.000 90.000 120.000	140.000 150.000		169.000	

143			.5740					3.1885		5740	.0258	1000.						
PAGE			0.4970	0485						.4970	. 1960	0909	0562 0565 0538	0315	0281	0286		•
Ę			.3780	2575				PAY.		.3780	.0855	. 6080	- 1858 - 1796 - 1570	2067	2450	. 2486		
CXERRIO			3010	3082				707.64		.3010	0967	1205	2198 3163 6072	- 3941	-, 2959	2781		
			9510	୍ ଅନୁଦ୍ଧ				•		<u>8</u>	0%0	0943	4441 4280 3847	5810	5200	6286		
			.2040	6088	i.0460	- 3229 - 5522		598.85		.2040	¥.00.	0711	0263 1252 1405	4831	5001	5638	1.0460	.3595
-073-1) OBB FIREI AGE			.1770		1.0180	. 2883 . 2883		. 598		i.770				1821	100 100 100 100 100 100 100 100 100 100		1.0180	.3839 .405
(AMES 11-073-1			. 1660	.7722	0666.	9	-, 5950 -, 8950	o		. 1660	.0294	- 0058	. 3181	.7354	.8251	.8077	0666.	
		BLE CP	.1580		.9600	0363 2873 0800 1300 1820	2051 1285 1021 4165	1.0996	BLE CP.	.1580						500	.9500	0063
- 0A14		NT VARIABLE	.1120	.4983	.9210	2263 1821 0468 1312 1870	1687 0795 0084	MACH =	NT VARIABLE	.1120	9	.0658	.2016 .2339 .3899	.4743		.5062	.9210	2217
RESSURE DATA - DATA	-3.899	DEPENDENT	.0700	.4398	.8790	1538 1790 .0405 028	1456 1093 0152 2496	.152 M	DEPENDENT	.0700	.0873	.0847	#04% #04%	.4156		.4423	.8790	1677
₾.	-3 -3		.0460	.5107	.8210	0616 0534 .2669 .2681	.5861 .4221 .4062			.0460	.1762	100 C		.5137		.5196	.8210	0571
TABULATED	BETA (1	AGE	. 0230	.6066	.7790	.0140 .0269 .0623 .1582	.3901 .4455 .4383 .4211	BETA (2)	AGE	.0230	800 800 800 800	4032	5398 5789 6263	.6239		.6196	.7790	.0149
	. 020	1) ORBITER FUSELAGE	.0080	.8520	.7290	.0528	.0124 .1671 .2118	.025	ER FUSEL	.0080	9969.		.7196			.8440	.7290	.0422
65 26			.0000	1.3303	.6520	. 0870 . 0091 . 0506	.0402 .0578 .0751	-	1) ORB1 '4	. 0000	1.3351					1.3351	.6520	. 0930 . 0452
DATE 10 FEB	ALPHA (2)	SECTION (X/LB	PH1 180.000	X/LB	PHI . 000 . 000 76.000 105.000	135.000 135.000 150.000 165.000	ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 .000	40.000	70.000 90.000 120.000	150.000	162.000 165.000	180.000	X/LB	. 000 . 000 . 000

(XE8810)

AMES 11-07310A148) -:40A/B/C/R ORB FUSELAGE

. 152

BETA (2) =

. 025 525

ALPHA (2) =

DATE 10 FEB 76

				3.1885		3.6	868															
	•			•		078¥.	-, 1 146	}	0982	0534	0389	0448	1 Cap	1970	0505						*	
				FRVL		3780	0977		ec5 : .	2174 27.	178	2677	चनस्य		2532							
				707.64		.3010				- 500. - 500.	• •	- 9146	1 000E	_	3121			*				
	,			•		9130	0469	8		6264		6016	rea.		5129		•	, 		Ċ		
	1.0460			596.85		.2040	.0035	0133	0733	0879	2660	4725	2.5.E	?	6232	1.0460	.3214	. 2028				
	1.0180			. 58	•	.1770							.4248 .4248			1.0180	.2971	.2307				
	3666.		969£ 3696	o		. 1660	.0195	.0203	.0319	.0487	. 2206	.6577		.7795	. 7973	0666	•		Casa	4233		
BLE CP	.9600	1392 1658 2419	2854 1968 1844 4141	1.0996	BLE CP	.1580									6,0	.9600	0020	2080 2080 2306		3942	2889	
DEPENDENT VARIABLE CP	.9210	0952 1480 2142	2330 1521 0924 0392	MACH	IT VARIABLE	.1120		.0299	1057	1473	3135	.4284			.5008	.9210	2357		2805	. 3459	.2133	
DEPENDE	.8790	0070 0486 1385	1778 1069 0296	4.214 M	DEPENDENT	.0700	.0843	.0387	1205	. 1 385 7 7	.2493	.3704			.4363	.8790	1589	0521	2097	2841	0923	
	.8210	. 2221 . 2030 . 1820	.2083 .4068 .4511	•		.0460	.1696	1568	88	. 2153 2023	3625	.4731			.5119	.8210	0640	. 2017 . 1896		.0683	105	
NGE	.7790	. 1493 . 1821 . 2688	3827 3962 4112 4159	BETA (3)	3	.0230	78.2	\$0.50 80 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80.50 80 80 80 80 80 80 80 80 80 80 80 80 80	39-6	4309	5351	.5760			.6174	.7796	.0076	1042	. 2365	2577.	3903	-
1'ORBITER FUSELAGE	.7290	1543	.1969	.023 86	R FUSELA	.0080	.6775			.5707					.8233	.7290	.0514	0995	•	.1115	1924	
	.6520	. 6225 . 0521	.0983 .0944 .0880	0.	I JORBITER FUSELAGE	.0000	1.322.1								1.3227	.6520	.0805	0333		. 1060	.1123	
SECTION (X/LB	74.000 20.000 165.000	135.000 135.000 150.000 165.000	ALPHA (2)	SECTION C	X/LB	PHI . 000	\$0.000 \$0.000	55.600	90.000	120.000	150.000	165.000	159.000 174.000	180.000	X/LB	PHI . 000 . 000	70.630	110.003	120.000	150.000	

	310)					BN/I		.3780	0354	- 6600	6441	3108	2115	2237	- 2498			
	(XEBB10)					- 708.59		.3010	0412	0428	1342	- SF40	4988	4583	3603			
						۵		0155.	.0115	0183	3322	3197	6812	6073	5950			
				1.0460		588.62		.2040	.043	.0047	0.098	0058	3370	5563	6620	1.0460	. 2843 2853 2853	
-	FUSELAGE			1.0180		= 58		.1770					į	5230		1.0180	.4308 .3500	
11-073-				3666		ø		.1660	.0820	989.	986	.4169	.7890	.8180	.7342	0666		1.04.7
TABULATED PRESSURE DATA - OA148 (AMES 11-073-1	-140A/B/C/R		WE CP	.9600	+92+·-	1.0985	BLE CP	.1580							6668	.9600	0197 2929 0471 1030	2575 1968 1820 4258
A - 0A1	11-073(04148)		DEPENDENT VARIABLE	.9210	1327	MACH	NT VARIABLE	.1120	07.72	. 1585 1586 1586 1586	8.5 8.5	.4195	£30		.4269	.9210	1678 1066 0682 1721	2405 1536 0751
SURE DAT	5 11-073	4.214	DEPENDE	.8790	.1107	-3.903 M	DEPENDENT	.0700	1712	. 2126 2126	3332	3624	3472		.3367	.8790	0718 1078 0261 0536	1733 1600 0826 1968
TED PRES	AMES			.8210	.4806			.0460	.2573	3301	1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	¥695	.4366		960 ⁴ .	.8210	.0318 .0366 .1522 .1407	.1486 .2972 .3060
TABULA		BETA (3)	AGE	OF 17.	.3989	BETA (1)	lge Ge	. 0230	3792	5696	.6611	.6369	.5627		.4851	.7790	. 1232 1373 - 3211 - 0863 1304	.3052 .3052 .3038 .3120 .3056
		. 023 BI	ER FUSELAGE	.7290	.2101		TR FUSEL	. 0080	.8219		.8290				.7165	.7290	.25;7 179*	0922 .1009 .13*1
9.76		•	1.0RBITE	.6520	. 1049	= 3.934	1) CRBITER FUSELAGE	.0000	1.3217						1.3217	.6520	. 1436 . 0865 0684 0342	069v 0288 .0609 .0620
DATE 10 FEB 76		ALPHA (2)	SECTION (1) ORBITER FU	X/LB	PH1 165.600 180.000	ALPHA (3)	SECTION (X/LB	PH1 .000	40.000 100.000	90.000	120.030	150.000	162.000 165.000 169.000	174.000	X/LB	FHI .000 40.000 70.000 90.000 105.000	135.000 135.000 150.000 165.030

.5740

0.4970

PAGE 145

.00¥8 -.0440

-.0656 -. 0742 -.1104 -.1059 -.1807

-.0603

-.0724

-.0874

146		3.1905		.5740	0418								3.1905	,	.5740	0487	.0005	
PAGE		•	٠	0.4970	0626 081		0525	0452	0409				•		678¥.	0657	.0969	0924 0750 0583
	9	FRVI		.3780	0387	2121 2591 2226	2035	2316	2467				FW/L		.3780	.0376	. 0000	2637 2618 1970
	(XE8910)	708.59		.3010	0379			.3614	3397				708.59		.3010	.0395	. 0793	2890 3395 6538
	,			.2510	. 0130	_	. 1889	- 6285	6804						2510	.0053 -	.0317	4346 4768
				.2040	.0428 .0262		. 5204 . 5104	5615	_	.0460	. 3893 . 2619		55		.2040		0159	
•	FUSELAGE	= 598.62		.1770		• •		. 4769	•	. 0180	.4555 3250 3250	•	- 598.62		0771.	•		
1-073-1	8	ø		. 1660	.0939 .0877	1395 1343 1561 3411	.7067		•	1 0666.		8668 3668 •	o		. 1660	6891	4569 4569	1879 1987 1988
PRESSURE DATA - DAIMB (AMES 11-073-1	-140A/B/C/R	1.0985	LE CP	.1580				.8770		2008	. 1936 - 1936 - 1856 - 3022	. 3315 . 2338 . 2338 . 4281	1.0985	ų	. 1580	•		• • •
9+140 - 1		MACH	T VARIABLE	.1120	.1313	. 1878 . 2175 . 2484 . 3604	.4167		5044. 5100	30.00	- 1604 - 1208 - 1948 - 1948	2050 2050 1528	ė ′	VARIABLE	.1120	<u> </u>	1981	1565 1794 3050
SURE DATA	11-073(0A148)	149 M	DEPENDENT	.0700.	. 1769 . 1388 . 1807	. 2354 . 2402 . 2892	. 3233		34.16	26/B.	0665 0958 0674 1984	2104 1362 0598	.20% MACH	DEPENDENT	.9700	1608	1412	. 1390 . 1383 . 2056
	AMES			.0460	.2588 .2588 .2883	. 3321 . 3473 . 3959	.4235		.4035 8210	.0510	. 0303 . 0392 . 1265 . 1751	. 1093 . 3638 . 4783 . 5240	*		.0460	.2638	2376	.2302 .2436 .3102
TABULATED		BETA (2)	IGE	. 0230	. 4044 . 4944	25.42 25.62 26.84 26.84	.5339	1	-5046 -7790	9611	.1363 .1363 .22111 .0082 .1646	.2231 .2756 .2909 .3041 .3201	[A (3)	×	. 0230	.3730	.4085 5754	.4316 .4498 .4709
			DORBITER FUSELAGE	.0080	.8260	.6887			7717.		. 1572 - 253 - 1794	0656 .0656	H BETA	PUSELAGE	0800.	.9077		.5303
97. E		₹ 3.940	1) 098116	.0000	1.3287				1.5687 16580		. 1415 . 1265 0768 0402	0012 .0506 .0601	3.944	1) ORB! TER	.0000	1.3109		
DATE 10 FEB 78		ALPHA (3)	SECTION (X/LB	PHI .000 20.000 4.000	25.060 70.000 120.000	150.000	152, 600 159, 000 174, 600			70.000 70.000 70.000 105.000		ALM": (3)	SECTION (X/LB		\$6.000 55.000	70.009 99.009 120.000

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DATE 10 F	10 FEB 76		TABULATED		PRESSURE DATA - DAIMB (AMES 11-073-1	A - 0A14	B (AMES	-11-073-						PAGE.	147
				AMES	:5 11-073	11-073(04148)	-140A/B/C/R ORB	C/R ORB	FUSELAGE			(XEB	(XEBB10)	. •	
ALPHA (3	3) * 3.	3.944 B	BETA (3)		4.204										
SECTION	(1)CRBITER	TER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	65.0	.3010	3780	.4970	.5740
PHI 140.000 150.000 151.000			8+L+.	.379	. ette	3752		.6321	3289	3885 5959	6484	3912	2865.	0442	
165.000								. 7424.	3656	5690	6826	3586	2582	0454	
180.000	1.3109	.6806	.4926	.4051	.3300	.4265	.8336	.7538		6794	5898	3650	8570	0597	
хлв	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PHI .000 70.000 90.000 90.000	.1573 .1697 0483	.1635	. 1195 . 1307 . 1492 . 138	.0227 .0345 .1128 .0867	0808 1024 1035 1609	1746 1532 2183 2581	0011 2156 2424 2892		.3029	. 3819. 545.					
150.000 150.000 150.000 155.000 185.000	. 0629 . 0803 . 0843	0631 .0928 .1288	.1758 .2789 .3041 .3085	.0030 .2713 .2773 .3817	3062 2542 1525 0768	3895 3133 2661 1843	4423 3510 3420 4502	. 4860 . 4509					•		•
ALPHA (4)		7.882 BE	BETA (1)		-3.899 MA	MACH .	1.0980	ø	598.6 1	.61	• •	- 709.30	EN/L	•	3.1901
SECTION (1) ORBITER FUSELAGE	30		DEPENDENT	IT VARIABLE	RE CP		•						
X/LB	. 0000	. 0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	9189.	.3010	3780	.4970	570
PHI .000 20.000	1.2889	.9397	. 5055 . 5503	. 3535	25. 25. 25.	. 1622		25.0		0911.	.0584	.024	.0306	0011	.0036
5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00			.6616 .6815	5734 5665	.3127	945. 045. 045.		. 1653 -707-		1382	.0569	.0297	-089.	0016	.0403
90.000 120.000 140.000		ţ.	5523 5523 542 6542 6542	.3800 .3800	.3177 .3177 .2803	.3106 .3572		. 2005 2005 2014			2855 3782 3440	1279 1742 5250	1413 2116 5705	2293 2072 2872	
150.000			. 4 38+	.3272	٠. 104.	.3620		57.575	. 4816	2538	7436	5965	2620	1137	
165.009 165.009 174.000							5458.	.7849	•	6146	6898	5157	2448	9060 -	

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PAGE 148

AMES :1-073(0A148) -140A/B/C/R ORB FUSELAGE

-3.899

BETA (1) =

7.882

ALPHA (4) =

(XEBB10)

Œ	SECTION (1) ORBITER FUSELAGE		1	DEPENDE	DEPENDENT VARIABLE CP	PLE CP									
. 0230 . 0800 .		•	.0460	.0700	.1120	.1580	.1660	0771.	. 20¥0	500	3010	3780	4970	.5740	
5693 .3614 .31	•	w.	3117	.2374	.7620		.6943		7176	6208	4076	- 2248	0585		
7290 . 1790 . 8210		.82	9	.8790	.9210	.9600		1.0180	1.0460		•				
.2435 .1906 .0920 .2128 .1052 32974017 .0112 26192968 .0216		.0920 .1056 .0116 .0686	50000	0126 0503 0191 0481	1188 0474 0621 1287	.0232 2417 0921 1235		.5328	. 2981 . 2981		,	·			
.0585 .1636 .4050 .0585 .1636 .4050 .0104 .2141 .0104 .2518		.1067 .3312 .4060		1893 1962 0936	2143 1747 1352 0520	2110 1922 2205 4605	- 365 - 292 - 292								
BETA (2) .	(2) •		•	. 144 m	MACH	1.0980	o	598.61		Q.	709.30	FW/L		3.1901	
FUSELAGE				DEPENDENT	IT VARIABLE	LE CP									
0080 . 0230 . 0460		.0460		.0700	.1120	. 1580	. 1660	.1770	.2040	520	.3010	.3780	0/64.	5740	
•	•	.3623		2650	i co		1428		1068	# 690.	.0330	.0299	· •	.9127	
.5711 .3697	• • •	3818		7075	2036		1618		9000	.0468	.0056	. 0258	0178	.0157	
.5402 .3383 .6353 .5244 .3288 .4801 .3230	• • •	.3383 .3288 .3230		23.56 23.56 22.56 22.36 36.50	2291 2490 3355		1582 1830 3555	• •	0050 0050 0943	3327 3853 4076	2131 2510 5839	2034 2715 3630	2153 1832 1587		
.4159 .3273	•	.3273		.2274	.3621		.6881	.4130	.5091	- 7449	•		0811		
						!	五元.	•	6087	6355	. 4014	2143 -	0571		
.5644 .3778 .3045	•	3042		. 2464	.3769	549 543	.7278	•	. 7£35	7202	- 386-	2088 -	0516		
0158. 0677. 0657	•	9210		.8790	0126.	.9600	0666	1.0180	.0460						
.2517 . 934 . 1008 . 2149 . 1159	• •	1008	* •	0015	1092	. 1582		\$0.3 \$0.3 \$0.3	.4293						

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

1	:							3.1901	•	Ž.	90										
PARE					•			•	Ş	0/64	96. 1	B/50.	1603	.0568	049.	8					
	5	3							500	09/6-	.0372		40 M		- 1993 -	uude -					
	(7590.6)	5 •		•	•			708.50	65				3150		. 3940	- 15031					
					٠			i L	25		. 45 G			. 7332	6745	- 4159				-	
				1.0460					2040	Ĉ	. 0814 . 0735	9.00 0.00 0.00 0.00		-	.6124	- 07.27.			.2672 .2672		
	FUSEL AGE			1.0180			2 GG **		.1770				•		3726	•	1.0180		3820		
(AMES 11-073-1	C/R ORB			0666.		4106	G	,	. 1660	1 704	1334	. 1953 . 1022	. 1875. 1875.	.6128	.7088	.7164	. 9990			- 4955	
B (AMES	-140A/B/C/R ORB		BLE CP		1295 1589 2781	3045 2812 2838 4590	1.0980	6 5	_							. 7922	.9600	1361	1550 2343 3155		3817
A - 0A148			DEPENDENT VARIABLE	.9210	1149 1683 2383	3159 2598 2220 1581	MACH	T VARIABLE	1120		1313	356	. 29. 1.05.	.3297		.3617	.9210	-, 1181			3619 -
TABULATED PRESSURE DATA	AMES 11-073(0A148)	*1.	DEPENDE	.8790	0745 1459 2443	27!4 1789 1133 .0787	4.206 M	DEPENDENT	.0700	.2443	. 205. 7205.	1.286	27.41.	.1790		.2222	9790	- 6810			2715 -
TED PRES	AFE			.8210	.0217 .0127 .0565	.3479 .3292 .5292			.0460	.357	₹3.E. 8.15 8.16	5.55 5.65 5.65 5.65 5.65 5.65 5.65 5.65	. 25 26 26 26 26	.2913		.3090	.8210	. 0857	. 1045 . 0122 . 0218 . 0009		2825. - 283. - 385.
TABULA		BETA (2)	AGE	.7790	3989 2216 .0236	. 1637 . 1637 . 2360 . 2709 . 2843	BETA (3)	ğ	.0230	\$969.	. 4836 . 4836	197	¥004.	.3731		3735	.7790	9961 .	3387 1373 1573	•	.2838
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TABULATEU PRESSURE DATA	ES 11-073(0A148)	.146 M	DEPENDENT	.0700	3353	3482 2697	0857 - 046 - 046	. 1212		. 1383	.8790	. 0681 . 0266 - 1573 - 1487 - 4360	3104 2298 1852 0524	.214 M	DEPENDENT	.0700	3379	1523	. 1022 . 0891 . 0726
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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE	4.8.14
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A - DA148 (-073(0A14B)	HACH	VT VARIABLE	.1120	2214	2179	0157 .0156 .351	.3750		4274	.9210	0951 1135 0488 1056			VARIABLE	.1120	2229 1969 1650 0919
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TABULATED		BETA (2)	. .	. 0230	0695 0497	950-V.	3487 4321 5387	.5921		.6001	.7790	2348 2284 .0490 .1092	.3568 .3568 .3566 .3542	(Y (3)	H	. 0230	0866 0779 0376 1456
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SECTION (1) ORBITER FUSELAGE

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DEPENDENT VARIABLE	.1120	.3337	.9210	- 1083 - 1155 - 0456 - 0899 - 1390 - 0655		MACH =	DEPENDENT VARIABLE	.1120	-, 1397	1161	.0564 .0564 .0564 .0564	.3083		.3482	.9210	1019 1031
DEPEND	.0700	. 2863	.8790	2835 3051 0291 1786 2761	.1053	.139 H	DEPENDE	.0700	0703	0330		.2718		.3024	.8790	2614 2786
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AGE	. 0230	.4572	.7790	1464 1319 .0182 .0870 .1560 .3330	3008	BETA (2)	AGE	.0230	.078ĉ .0980	3313	.3853 .4312 .4872	.4938		.4822	.7790	1456 1330
rer fusei	. 0080	.7142	.7290	0770 1471 1115- 1110.	.0910	.014	ER FUSEL	.0080	.5249		.5743			.7085	.7290	0786
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:S 11-073-1) PAGE 157	SYC/R ORB FUSELAGE (XEBBII)			3 9990 1.0180 1.0450		- 2808 		7 0 - = 599.38 P = 1058.3 RN/L = 3.5741		0+72. 0784. 0376. 03010 .3010 .0711. 0301. 1		1549183528040469 .0024 .0202 .0583	-1784 - 2273 - 7828 - 0987 0116 0385 -1851 - 1851 - 1858 - 1857 0204 0375	565178782137 .0162 7529		. 1840 8786 8771 0650 . 0150 . 0089.	.6143 -1.060887390652 .0159 .0075	9950 1.0180 1.0460	. 3819 . 2205	e de la companya de l	\$£05.		
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TA - 0A1	310A14B)		DEPENDENT VARIABLE	.9210	0490 0931 1582	2234		MACH .	DEPENDENT VARIABLE	.1120			0380		.2593		3409	.9210		1173		. X27.	
SSURE DA	MES 11-073(0A148)	. 139	DEPEND	.8790	1309 1347 3629	4068 3010	Ť	4.220	DEPEND	.0700			0250		.2190		.2891	.8790				6285 4918	
ATED PRE	Ą	. (5		.8210	.0935 .1152 .1397	.2548 .4066 .4219	, S	3) #		.0460	0007		5 5 5 5 5 6 6 5 6 6 5 6 6 5 6 6	.2083	.3260		.3626	.8210		1250 1750 1750 1750 1750 1750 1750 1750 17		.3535	¥1.7
TABUL		BETA (AGE	.7790	0265 .0456 .1213	. 1877 1.851 1.895		BETA (:	AGE	. 0230	.0627		2.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00		.4281		8474.	.7790	1466	0547 0547 .0123	.07±70.	. 1295 . 2276	.2638
		#10.	1) CABITER FUSELAGE	.7290	1887	.0143		.024	1) ORBITFR FUSELAGE	. u080	.5064	•	3				.6871	.7290	0799	1687 0982		0022	9729
83 26			1960(1)	.6520	1159 067*	+310	.0219 .0219			0000	1.2917						1.2017	.6520	0293	1039 1039 0569		0130	.013¥
DATE 10 FEB 76		ALPHA (2)	SECTION	x/L8	PH1 75.000 90.000 105.000	135.000	165 200	ALPHA (2)	SECTION (хлв	PH1	20.00c	70.000 90.000	120.000	150.000	162.000 165.000 169.000	17: .000 180 .000	X/LB	000.	70.000 90.000	105.000	120.003 135.009	150.000

DATE 10 FEB 76

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

				3.5758		.5740	.081¥	.1016														
				•		.¥970	.0536	.060	.0256	0613	0210	- 0093		0012								
			•	FRVL	,	.3780	0030	.0144	.0291	0301	.0037	וואני		. 04-20				•				
				1059.2	13. 1 ₄ .	.3010	. 0180	0463	ŗ	~ (ų	4363	~ 1		2852								,
				•		.2510	1271	1726	5071	6302	9241	8		9390								
		1.0460		599.47		.2040	1081	388			3571 4608	888	•	-1.0873	1.0460		25.5. 27.4.1.					•
		1.0180		* 599		0771.						12. 13. 15.		1	1.0180	1	3638		*	٠		r
		9886		ø		. 1660	1003	- 1120	- 0300 0000	.0166 .2030	.6041	~~ · · · · · ·	6363	. S+00	0666.	m - w	w z-			2773	٠	
	LE CP	.9600	3746	71668.	LE CP	. 1580							9		.9600		0165	0324 0951		1276	- 0958	3558
	DEPENDENT VARIABLE CP	.9210	3148	MACH	IT VARIABLE	.1120		0046	. 1308 1308	. 1583 8735	2699			.839	.9210					100	0652	0704
4.220	DEPENDEN	.8790	1566	-3.911 MA	DEPENDENT	.0700	.0131	.0565	1838	. 1921 . 2186	.2052.	,,		1900	.8790	į	2345 2345		1543	,	1889	
		.8210	£484.			.0460	1000	1604	. 2939	.3128	.2894			.2613	.8210		1.1971	. 1430	. 1865	E		
BETA (3)	GE	.7790	.2901	BETA (1)	W	.0230	0119	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	5153	.5233 .4948	5714.			.3387	.7790		0507	0613	.1122	.235 .035	. 10 J	.2379 .2134
.024 BE	R MUSEL	.7290	. 09 45		R FUSELA	.0080	.6625	٠		.6857				.5723	. 7290		econ.	4231		1208	7810.	.0253
	(1) ORBITER FUSELAGE	.6520	.0117 4010.	3.936	1) OPBITE	0000	1.1999							1.1999	.6520	(5 8 5 8	- 2098		1755	0744	0580 0555
ALPHA (2)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (3)	SECTION 1 110RBITER FUSELAGE	X/LB		40.000	75.000 70.000	90.000	150.000	15.1.00 162.00 163.00 1	169.000		X/LB	PH:	*0.000			120.000		180.000

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EB 76	

85		3.5758		.5740	5680 6711.				3.5738	.57v0	0.00
PAGE				£970	7470. 4180. 410. 8510. 8700.	.0129			•	0764.	. 0475 . 0475 . 0001 . 0102
		TAN.		.3780	.0251 0319 0226 0157	.0391			FBN/L	3780	
	(XE8B11)	- 1059.2		.3010	0500 0502 1449 1827 2800	2142			1059.2	.3010	0843 1513 1627 2974
		•		.2510	-,1410 -,1989 -,6624 -,7253 -,6962 -,0997	9417			۵.	8	1359 2161 7251 7978
		599.47		.2040	1011 1021 1031 1031 1031 1031 1031 1031	9735	1.0460	1355. 1751.	599.47	0463.	- 1106 - 1453 - 1455 - 2646 - 2630 - 4071
-	FUSELAGE	8		.1770	8987		1.0180	.3361 .3361	*	.1770	
TABULATED PRESSURE DATA - OAI48 (AVES 11-073-1	-140A/B/C/R ORB FUSELAGE	•		. 1660	0929 0074 0770 0785 0601	.5836	0666	 1975 : .	0	.1660	
B (AMES	-140A/B/	71668.	VARIABLE CP	. 1580	·	. 725F.	.9600	. 1056 	71668.	BLE CP . 1580	
A - 0A14		MACH .		.1120	0611 0120 .0291 .0375 .0784 .1928	. 2758	.9210	. 1320 . 1320 . 10359 . 1451 . 1630 . 1630	MACH.	IT VARIABLE	0719 0363 0089 .0065
SURE DAT	MES 11-073(0A148)	. 151 M	DEPENDENT	.0700	-0117 -0117 -0117 -0289 -0933 -0954 -1981	.2026	.8790	- 2193 - 2322 - 1053 - 1053 - 1813 - 2969 - 4390 - 6458 - 6458	4.207 H	DEPENDENT	. 0100 - 0257 - 0067 - 0082 - 0081 - 0041
TED PRES	AME			0940.	.1136 .1040 .1321 .1821 .1838 .2023 .2523	.2761	.8210	2.1985 .0753 .0758 .0883 .0883 .4707		0940	.1094 .0747 .0816 .0875 .0737
TABULA		BETA (2)	AGE	. 0230	7059 7059 7059 7059 7059 7014 7014 7014 7014	.3626	.7790		BETA (3)	NGE . D230	2086 1998 1975 1175 1175 1076 176 H
		3.937 8	1 JORBITER FUSELAGE	.0080	. 5731 5046	.5690	.7290		3.940 BK	CA FUSELAGE	.55±0 .3791
B 76				0000.	1.209	1.2094	.6520		3.5	1) ORBITER	1.1900
DATE 10 FEB 76		ALPHA (3)	SECTION C	X/LB	PHI 20.000 55.000 70.000 120.000 140.000 151.000	162.000 165.000 169.000 174.000	X/LB	PH1 -000 -	ALPHA (3)	SECTION (PH) 20 000 20 000 40 000 55 000 90 000 120 000

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DATE 10 FEB 76

(XE8811)

AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

		.57.0							3.5790		.5740	1941.	. 1831			
		.4970	2010:	.0053	0004				•	•	. 4970	.1169	.1188	0020 0125 1569	0301	016
		.3780	4446.	.0337	.0390			·	E RRV.		.3780	£ 5.	.0614	0897 1065 2379	1331	1293
		.3010	- 3459	1242.	2717				1059.2		.3010	0240	.0122	1861 2388 5146	4495	5020
		1310	-1.0319	8768	9601				۵.		955	0587	0764	5060 6086 6529	6543	. 6488
		.2040	6844	9845	-1.1085	1.0460	.2383 .0913		599.79		.2040	0309	0307		4861	-1.0375
		.1770		1518		1.0180	.3627		86		.1770				1	2002 2002
		. 1660	4384	. 855F	.5663	9860		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a		. 1660		.0185	. 2029. 2027. 2057.	.5832	.6016
	BLE CP	.1580			64.89°.	.9600	. 1071 	2651 1981 1664 3628	.89940	BLE CP	.:580					.6993
	DEPENDENT VARIABLE	.1120	.2050		.2629	.9210	- 1825 - 1323 - 1023 - 1504 - 1935	2691 2099 2629 3532	MACH	NT VARIABLE	.1120		1036	20151 20151 20151 20151 20151	.2024	
4.207	DEPENDE	.0700	.1392		.1867	.8790	2033 2299 3688 5100	2.1.6.1.9.1.9.1.9.1.9.1.9.1.9.1.9.1.9.1.9	3.900 H	DEPENDENT	.0700	. 1207	1816	2.500 1.500 1.500 1.500	.1148	
		.0460	.2338		.2343	.8210	1976 1777 0018 0026	.3295 .4448 .3595	ı B		.0460	4122.	. 2362 . 2939	3378. 3078. 4089. 4049.	. 1875	
BETA (3)	IGE	.0230	.3308		.3511	.7790	0540 0538 1331 0586	. 1656 . 1666 . 1905 . 1926	BETA (1)	3	.0230	3612	.4068 .5255	1440 178 1869 1989	.2954	
3.940 88	1) ORBITER FUSELAGE	.0000			.5406	.7290	.3765 3765 2681	1083 .0045	7.890 BI	ER FUSELAGE	.0080	.8066		.6350		
	11099178	. 0000			1.1900	.6520	.0494 .0470 2268 1615	0412 0412 0434 0569	- 7.0	1) ORBITER	.0000	1.1652				
ALPHA (3)	SECTION (X/LB	PH1 140.670 150.000	162.000 165.000	174.000	X/LB	PHI - 000 -	120.000 135.000 135.000 185.000 180.000	ALPHA (4)	SECTION (X/LB	PH1 .000	20.000 40.000	55.000 70.000 120.000	140.000 150.000	151.000 167.000 165.000 169.000 174.000

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191				٠ ا					3.5790		.57*0	1.68						
PAGE 1				.¥970	8500.				•		.4970		0126 0134	0105	.0073	.0086		
				.3780	1099				RN/L		3780	.0463		0219	.0326	.0202		
	(XE8811)			.3010	. 1961				1059.2		.3010	0162		4568	4371	3461		
				<u>8</u>	7423				•		93.	0588	5354 6990 7146	6325	65+3	6578		
				.2040	9299	1.0460	. 1531		599.79		.20%0	0356	- 1558 - 2569 - 3643	5069 8548	-1.0366	-1.1393	1.0460	.2505 1.2505 1.2505
•	FUSELAGE	٠		.1770		1.0180	.4050 .4050		* 290		0771.			361	5080	·	1.0180	.5141
11-073-1				.1660	9664.	0666.		1988 1088 1011	0		. 1660		0310 0310 0229	.5034	.5620	3.62	9880	
(AMES	-140A/B/C/R ORB		LE CP	.1580		.9600	. 1072 0090 0616 1297 1652	- 1495 - 1488 - 1357	0+668	LE CP	.1580					.6737	.9600	.0211
- 0A149			DEPENDENT VARIABLE	.1120	.2012	.9210	1439 1417 0200 0822 1320	1745 1390 1122 0785	MACH .	IT VARIABLE	.1120	.0286	. 059 0.059 0.059 0.059 0.059	1990		.2166	.9210	1367
TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	AMES 11-073(0A148)	-3.900	DEPENDEN	.0700	. 1063	0678.	1635 1979 0587 1022	2834 2834 2158 0071	.145 R	DEPENDENT	.0700	1022	7.090 7.090 7.090 7.090	.1013		.1155	.8790	1665
ED PRESS	AMES			.0460	.1690	.8210	- 1178 - 0999 - 1114 - 0992	.0874 .2125 .2741 .4741	<u> </u>	_	.0460	.2233 .2165	2000 4000 4000 4000 4000 4000	- - 68		0 <i>TT</i> 1.	.8210	1141
TABULATI		TA (1)	H	.0230	.2158	.7790	.0040 .0310 1015 0109	48 86 18 18 18 18 18 18 18 18 18 18 18 18 18	1.16.6 BETA (2)	Ę,	. 0230	.3655	3963 3805 3805	2780		85.47.	.7790	.0076 .029
		90 BETA	R FUSELAGE	.0080	.422B	.7290	5647 5647	2211	2 2	R FUSELA	.0080	.8131	7684.			1714.	.7290	. 0892
76		7.890	1) ORBITER	.0000	1.1652	.6520	.1340 .1401 3055	2957 1471	- 1001 - +88.7 =	11 ORBITER FUSELAGE	0000	1.1755				1.1755	.6520	. 1409
DATE 10 FEB		ALPHA (4)	SECTION (X/LB	PH1 180.000	X/LB	70.000 90.000 90.000		2	SECTION C		7±1 20.000 20.000	40.000 75.000 70.000 000.000	150.000	151.080 162.000 165.900	17.000	X/LB	PH1 .000 40.000

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TABLLATED PRESSURE DATA + DAI+8 (AMES 11-073-1)

APES 11-07310A148) -140A/B/C/R ORB FUSELAGE

					3.5790		U.	.139	.1574								
					•		.4970	.1145	1970.	0361	0193	. 0045	.0064	0012			
					RN/L		3780	.0411	.0126	1005		.0038	1700.	. 0510.			
					1059.2		3010	0359	1233	2919		4161	3549	4285			
							.2510	0715	1753	6698	Fift.	6590	7057	6846			
		1.0460			599.79		.20±0	0466	0973	1628	9474.1	-1.0235	-1.0457	-1.1756	1.0460	. 0980	
		1.0180			598		.1776					-	125	•	1.0180	.3420	
		0666.	G89	- 2808	a		. 1660	0221	0399 0435	- 1029	- 1948 - 1740	.4133		.524	0666.		. 3102 - 3102
	라 당 백	.960	1142 1401 1899	- 2046 - 1802 - 1544 - 3578	.89940	e co	. 1580							.6265	.9600	. 1509 - 1509 - 1942 - 2361	2806 2280 1947
	r yariabi	.9210	0920 1306 1885	2370 1962 1992 1966	MACH .	T VARIABLE	.1120		.0043	0240	.0139	.1590		.1966	.9210	1475 1461 1560 2000 2659	3483 3331 3084
.145	DEPENDENT YARIABLE	.8790	1553 2193 3398	4481 3720 2831 1094	~	DEPENDENT	.0700	1076	0689	. 0289 - 0057	0078 .0236	.0615		0960	.8790	- 1713 - 2034 - 2594 - 3313	- 5554 - 4595 - 3917
	_	.8210	.0317	.3180	8144.		.0460	6	1763	. 1065 . 0815	1056	.1520		0141.	.8210	1310 1077 0464 0521	.0413 .2721 .3936
(S) VI	ы	.7790	1431 0837 0154	.0320 .1082 .1360	1561 RETA (3)	,	.0230	É	3310		2679 89.00	.2310		.2329	.7790	. 1610 - 1610 - 1610	0%26 .0872 .1150
PE BETA	R FUSELAGE	.7290	6118 4574	2150	6 1 60	R FUSELA	.0080		1887		.3252			3916	.7290	. 5932 4369	2216
7.89	1) ORBITER	.6520	. 3088	1985	- 1009	900	.0000		1.1580					1.1580	.6520	. 1321 . 1375 - 3052 - 2424	1607
ALPHA (4) =	SECTION (X/LB			180.000			Ē	30.00 S.000	56.988 35.888	90.000	140.000	151.990	000 -621 169 -000 174 - 000	•	PM	110.000 135.000 150.000

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DATE 10 FEB 76		TABULATED	_	PRESSURE DATA	'A - 0AI'	- DAIYB (AMES 11-073-1	11-073-	-	•				PAGE	<u>\$</u>
			AMES	TS 11-073	11-073104:48)	-140A/B/C/R	8	FUSELAGE			CXEBBII	3113		
	11.939	BETA C 2	٤) ۽	0×1.	HACH .	.89887	ø		599.34	۵.	- 1059.7	ZNZ.	•	3.5747
	I JORBITER FUSELAGE	ELAGE		DEPENDENT	INT VARIABLE	BLE CP								
0000	. 0080	0530	.0460	.0700	.1120	.1580	. 1660	0.771	.2040	.2510	.3010	.3780	.4970	5740
	.9330	• •	. 3444	.2267	.1238		0740 5590		.0560	. 0263	.9431	.1055	. 1827	.e13
		.4336	3266		13.40 6.40 6.40		0630		0036	0509	0016	1670.	1567	202
	Š	•	1792	•	.0667		7520		- 1256	5271	2360	1799	0826	
	0 5 7	2	.0959	98.0	.1183		009a .1349			6548	4148	1892 3082	1337	
		.1534	. 0902	.6127	.1403		1981·	. 1600	7383	6039	5141	1873	0428	
							.5157		-1.0188	6249	5369	1897	0018	
	C445.	7411.	. 0602	.0267	.1581	.6108	.4916		7572	6056	5238	2222	7.00.	
	.7290	0677.	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
.2317 .4617 .3467	. 1650 7*06 5861	. 0815 - 1045 - 1012 - 1012	0481 0232 0777 0428	1306 1875 3111 3399	1658 1602 2732 2732	. 0914 0016 1791 1858		999 998 1	. 2579 . 1183					
2672 1975 1465	3023 1972 1045	0037 .0250 .0330 .0835	.3703 .3703 .3934	4464 4055 3440 158	4377 3230 2653 2214	2425 2330 1944 3595								
O.	11.928	BETA (3)	<i>;</i>	.228	MACH .	.89887	o	* 599.3º		•	1059.7	FBV/L	•	3.57+7
ш	110ABITER FUSELAGE	LAGE		DEPENDENT	IT VARIABLE	AE CP								
	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0764.	5740
	.9120	. 4830		.1627	.0867		.0562		.910.	.033 4	6589	.1050	.1879	. 2064
	ST. 45.	.2916 .2321 .2321	. 1097 . 1097 . 0563	. 0319 - 0164 - 0319	0479 0479 .0003 .0118		0052 1219 0949			1148 5905 7148	0812 3173 2333	2200 1972	.1195	٠ <u>۲</u>
		.1703		0376	.0913		.0672	•					.0732	

DATE 10 FEB 76	92		TABULATED		SSURE DA	TA - 0A1	PRESSURE DATA - DAINB (AMES 11-073-1)	11-073-	-					PAGE	8
				₹	ES 11-07	3(0A148)	APES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	C/R 0RB I	FUSELAGE				(1,000)		}
K.PHA (5) =	11.928		BETA (3	4.228										
SECTION (1) ORBITER FUSELAGE	10RB1TE	R FUSEL	AGE		DEPEND	DEPENDENT VARIABLE CP	BLE CP								
. פער	0000	.0080	. 0230	.0460		.1120	.1580	. 1660	1770	0	Š	e e			
PHI 140.000 150.000 151.000			. 195	.059	0125	. 1209		.3887	i g	6180 9895	.9963	.59435157	.378U 1820	#600	9¥/c.
165.000 169.000								9084	.0963	9811	6037	5371	2043	.0117	
	1.0953	聖.	.1109	6 19 0.	. 0095	1141.	.5802	\$08 1		6675	R202	1048	1053	3	
7LB .(.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460			3	2	
	.2116 22167	.1713	.0852	0538		- 1801	.0927		.5481	800					
70.060 90.000 105.000		.5711		1219 1219 0826	. 3496 405. 5326	1750 3083 4103 5322	0058 2083 2329		.3629	6060					
	•	2967	0712	0473 .2393	5166	5832		4218							•
	1293	1256	.0960 .0677	.3708	171	.3500	2490 3746								

TABLEATED PRESSURE DATA - DAING (AMES 1-073-1)

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	85.000 .000 .600	4.8150		575	0760	1477							
		•		. 4870	0805	1466	<u>.</u>	98	0000	0152	0333		
DATA	SPOBRK L-ELWN MACH	AZ/L		.3780	0731	1659	.0657		0338	0548	0681		
PARAMETRIC DATA	. 500 . 500 . 000 . 000	2385.7		.3010	- 2360 -	- 1957 -	8000		- 1660	1237	1335		
ā	RUDDER • BOFLAP • R-ELVN •	•		9185	1263	2688 -	1291		3087	2363 -	2259 -		
	201	333.96		.2040	1491	3296	1168	- 1451	3538	9367	-1.1837	1.0460	0.000 5000 5000 5000 5000 5000 5000 500
		86		0771.					ž	998	•	1.0180	### ###
		đ		.1660	1828 3:63	3705	- 0333	1901 · :	. 5695	5795	3709	0666	
		. 58636	BLE CP	.1580				•			. 7069	.9600	. 0405 . 0546 . 0576 . 1462 . 1911 . 1568 . 1368 . 1868 . 1868 . 1868 . 1868
	228	* 17.7W	NI JARIABLE	.1120		3090	9863 1368 137	.3316	.3511		.2885	.9210	1149 1034 0345 0545 1144 0367 0367
	.N1 0000 .N. 375.0000 .N.	н 688. г-	DEPENDENT	.0700	2164 1979	- 2979	1571	3512	.3528		.2796	.8790	1548 1889 0353 0118 02013 0388 0388
	1076. 375.			.0450			100 M		.4358		. W.33	.8210	25.53 - 1846 - 1
5	25 C	BETA (1)	MGE	.0230	2157	950	453 8538	.6257	.5758		¥*18	.7790	- 1667 - 1815 - 1815 - 1815 - 1873 - 1858 - 2895 - 2896 - 2303 - 2303 - 2303
REFERENCE DATA	gri F		R FUSEL	.0080	.1340		£.				07.1T.	.7290	.0929 .0910 .0910 .001.
REFE	2890.0000 474.8000 938.0680 0300	. 4.057	1) ORBITER FUSELAGE	0000.	1.0179						1.0179	.6520	
		PAR C C	ECTION (9	PH1 .000	40.000 30.000	70.000 90.000	20.000 *0.000	50.000	8888 8888 8888 8888	000	œį	#! .000 .000 .000 .000 .000 .000 .000 .0

167		4.8160		5740	0636	1058									4 .8160	,	er.	0635	0803	
PAGE		•		.4970	0427	0997	.0836	3.5	.0222	**10.	.010				٠ ب		£970	3389	057	98.9. 15.10.
	(2)	RNAL		.3780	0563	1086	.0373	.0003	0152	0243	0343				T KBN/L		92. 83.	0537	0661	. 0052 0339 0339
	(XEBB12)	2385.7	•	3010	0758	1358	0374	1957 1957	0858	0928	0914				- 2385.7		.3010	0703	0905	0668 1041 2427
		•		50 50	1096	2027	1790	2313	2712	2056	1956				<u>.</u>		Ķ	1038	1523	2619 2619 2814
		593.96		.2040	1362	1690 2664	- 1989 - 1864	88. 88. 88.	4107	9210	-1.1500	1.0460	.0897 4450.		593.96		.2040	1307	2196	. 3606 . 3606 . 9447
~	FUSELAGE	- 593		.1770					1598	1958	•	1.0180	.3532		8		.1770			
11-073-1	e e e e e e e e e e e e e e e e e e e	o		. 1660	1650	2005 2975	1824 1083	0995 .0831	.5083	199	.4702	.9990	922	2003.	0		. 1660	1588	7202	- : 800 - : 893 - : 0478
(AMES	-140A/B/C/R	.59636	LE CP	.1580						•	64.	.9600	. 0359 0347 1210 1698 2164	<i>2275</i> 1723 1107 3339	.59636	R.E. CP	.1580			
- 0A148		MACH .	T VARIABLE	.1120		2611	1460	. 8518 8518	.3305		395	.9210	1174 0982 0294 0968	1857 0870 0572 0495	MACH .	IT VARIABLE	.1120	7916 -	2224	0678 0554 1443
PRESSURE DATA - DAI48 (AMES 11-073-1	11-073(0A148)	-3.87. MA	UEPENDENT	.0700			0636 .0646		3336		.3135	.8790	1569 1938 0127 0710	2155 1342 0774 .1046	. 163 M	DEPENDENT	.0700	1956	2278	- 0351 - 0094 1492
	AMES			.0460		+601	. 1352		8*1*		.3852	.8210	7.2116 7.2183 1.1351 1.1605	.3577 .4521 .4478			.0460	1761	- 1919	1019 2604
TABULATED		BETA (2)	ige ige	.0230	-,1791	1677	.3413	.5356	.5458		4848	.7790	1623 1673 0439 .0995 .1506	. 3089 . 3089 . 3089 . 2635	BETA (3	AGE	.0230	1721	0221	. 2268 . 3056 . 4223
			R FUSELAGE	.0080	1733			.6110			.7378	.7290	1263 0312 . 0246	.0877 .1547		ER FUSELAGE	.0080	.1798		.4569
85		* -4·036	1) ORBITER	.0000	5050						1.0605	.6520	1024 1749 0006	.0594 .0594 .0561	-4.017	1.0RB17ER	.0000	1.0713		
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	1# G	20.000 40.000	55.000	90.000	140.000	162.000 165.000	174 . 000 180 . 000	x/LB		110.000 120.000 135.000 150.000 185.000	ALPHA (1)	SECTION (X/LB	PH!	\$0.000 \$0.000	90.000 90.000 150.000

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			5740					4.8160		5740	. 60	0363							
			£970	1700.				•		0784.	. 9720	0437	.0320	.0493	0651	0501	9413		
(2)			.3780	0301				PAV.		.3780	0692	0339	0124 0.275	182	1012	. 6989	0766		
(XE8812)			3010	0936				- 2385.7		.3010	9-60	0554	0945	3465		1494	1306		
			.2510	1906				•		.830	1285	11%	2552	. 390r.	2699	2388	2255		
			.2040	-1.1237	1.0460	.0916 0075		593.96		.2040	1553	1689	3231	5366	5153 6322	9891	-1.1498	1.0460	.0145
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C/R 0RB			. 1660	1987	.9990	Ç	3219	o		. 1660	1796	0061	2751	3392	.1555		3975	0666*	
-1404/8/		BLE CP	. 1580		.9600	. 350 - 0166 - 1562 - 2085 - 2610	3650 2741 2018 3593	. 59636	ale co	. 1580							.5+83	309G·	.0348 0157
(0A148)		DEPENDENT VARIABLE	.1120	. 3229	.9210	1189 1023 0961 1660	3680 2382 2211 2196	MACH .	DEPENDENT VARIABLE	.1120	ë	1982	1886	1016	. 1069		.2781	.9210	115
S 11-573	4.234	30N3630	.0700	3145	.8790	- 1582 - 1947 - 1025 - 1750	4488 3336 2531 0985	8.307 M	DEPENDE	.0700	2323	. 2299 2299	- 1927	1118	.1182		.2668	.8790	1588
AME	# - ·		.0460	. 3856	.8210	- 2030 - 2030 - 0406 - 0406 - 0413	. 3225 . 4918			.0460	1972	2116	- 1522	0011	.2255		.3315	.8210	2129 1925
•	BETA (4)	AGE	. 0230	-490S	.7790	1622 1560 0356 .0171	. 1805 1805 1905 1973:	6ETA (5)	IGE	. 0230	2020	14.0	0031	1592	.2973		14387	0677.	1580
		DORBITER FUSELAGE	. 0080	.7069	.7290	1 <i>279</i> 0827 0297	0098	<u> </u>	1) ORBITER FUSELAGE	.0800	1347		9	3			.6336	72-90	1306
	-4.02B	ORBITE	.0000	1.0497	.5520	1038 1310 0337 0029	0093 .0331 .0352	. 0.50.	11099176	0000.	1.0015						1.0015	C.C.20	1154
	ALPHA (1) =	_		_			•		•								_		

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

DATE 10 FEB 76

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TABULATED PRESSURE DATA - CAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 78	

(XEBB12)

						4.8134		9740	0230	050+								
								0.64	0215	0621	0409	5 5	0556	0573	0630			
•						FAVL		.3780	0523	0714	.0301	uppg	0800	0917	0922			
 						2385.7		.3010	0722	0907	0179	2151	1521	1664	1602			
						• •		.2510	1017	1476	1331		€904°-	2947	2654	•		
			1.0460			594.31		.2040	711	- 2054	0925 1562		-,4658	-1.1259	1.3634	1.0460	.0990 4340	
			1.0180			* 594		.1770						E171.	,	1.0180	. 285. 28.99	
			. 999¢	ָ עַנָּ עַנָּ	. 3695 . 3695	σ	,	. 1660	1368	2264	84.10. 020.	.1742	.5168	3126	.3009	. 9990		
		ALE CIP	.9600	1612 2129 2701	4190 3382 2778 3505	.59654	ALE CP	.1580						:	.6610	.9600	0404 0456 0852 1474	1620 1598 1044
		DEPENDENT VARIABLE	.9210	1106 1898 2614	4617 3419 3466 3263	MXCH =	DEPENDENT VARIABLE	.1120		1581	. 1365 . 1365 . 1663	.2824	.2512		.2066	.9210	1081 0848 0503 0503	1225 0697 0366
	100	DEPENDE	.8790	1369 2117 3597	5938 4788 4189	-7.924 M	DEPENDEN	.0700	1316	- 1278		. 2923	.2470		. 186±	.8790	1368 1697 .0354 0043	1523 1201 1141
ŧ (•		.8210		1302 .1536 .4402 .3875	n		.0460	1117	0357	25.04. 19.496 19.496	. 3580	.3195		.2465	.8210	1761 1810 1805 2225 3506	.4916 .4375 .2558
7	-	3	.7790	0818 0498 0062	0261 .0702 .1131 .1380 .1960	BETA (1)	IGE	.0230	0613	2008	.5568 .5568	. 958+	.4525		3235	.7790	1238 1262 .0380 .0982	4125: 4045:
		IR FUSELAGE	.7290	1131	0627 0053	.047 86	R FUSELA	.0080	T.52.		.7381				.5851	.7290	0826 0704	.0107
C 110		1) CRBITER	.6520	0546 0327	0405 0268 0230 0191		13ORBITE	0000.	1.0460			٦ °			1.0460	.6520	0554 1073 0828 0380	0707
***************************************	NILL WILL WAR	SECTION	X/LB	70.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (2)	SECTION (1) ORBITER FUSELAGE	хлв	PH1	#0.000 #0.000	55.000 70.000 90.000	126.000	150.000	162.000 165.000 163.000	174.000 190.000	x/LB	PHI .000 %0.000 70.000 90.000	110.000 120.000 125.000 150.000

DATE 10 FEB 76		TABULATED		SURE DAT	A - 0A14	PRESSURE DATA - DAI'48 (AMES 11-073-1	11-073-	-					PAGE	171
			A.E.	AMES 11-073(0A148)		-140~ B/C/R ORB	C/R ORB	FUSELAGE			CXE	(XEBB12)	 . ,	
ALPHA (2) =	.047	BETA (1	11 = -7	-7.924	•		_							
SECTION (1) CRBITER FUSELAGE	NTER FUSE	LAGE		I3CN3430	DEPENDENT VAR! ABLE	BLE CP								
.6520	0627. 09	.7790	.8210	.8790	.9210	.9600	J666.	1.0180	1.0460					
PH1 165.0000351 180.0000510	. 0234	. 1887 . 1588	92X:	. 1523	0020	3223		•						
ALPHA (2) =	.057	BETA (2)		-3.897 M	MACH .	.59654	0	*	594.31	•	- 2385.7	7 RBV/L	•	¥.8.4
SECTION (1) ORB	1) OPBITER FUSELAGE	LAGE		DEPENDENT	NT VARIABLE	PLE CP								
0000	0800 . 00	. 9230	.0460	.0700	.1120	.1580	. 1660	b771.	.2040	<u>8</u>	.3010	.3780	.4970	5740
PHI .000 1.0845	5 .3679	•	0815	-1108			1225		1014	0829	0517		00*1	0149
		1671	0361 0361	- 139	. 1315		- 178 178 178 1		1216	1123	0570	0418	0368	- 85 - 85
70.000 67.000 88.000	9,00		1931	1108	.0536		0677		1575	1760	0531	0003	.0284	
126.000 186.000	8	. 4762	3225	.2186	. 2226		0851 . 0851		. 2550 . 2580 . 2580	2587	0659 2210	0110	0150	
888		.4339	.3102	.2384	.2533		.4651		3371 5075	3466	1296	0516	0182	
162.000 165.000 169.000							5052	6	-1.1007	2625	÷.1303	0530	0182	
1.0845	5 .6005	.3607	.2778	.2135	. 2399	Č.	.3975	•	-1.3196	232	1258	0551	0215	
.6520	0 .7290	.7790	.8210	.8790	.9210	0096	0866.	1.0180	1.0460					•
ትት•0° 00i	1920 - 1	1183	1749	 188	104	.0508		. 3622	1960					
	31118 10437		1.1759	0715	0797 0856 0952	0334 1129 1688		₹98% •	.0361					
110.000 110.000 120.000 - 6341	ACSO.	9 6) (35)		X 6		3883							
		3555 3687	3388 3389 5057	1787		. 1888 1. 1888 1. 1888								
165.630 .0102 180.0000023			4308		0857	3306								

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37.1		4.8134		.5740	0116	4.8134		5740	.0040
PAGE		•		.¥970	0018 0214 0079 0079 0049 0078	*		0.64	0098 0178 0038 0099
	12)	RN/L		3780	. 04.57 . 07.57 . 07.59 . 04.69 . 04.69 . 04.69	RRVL		.3780	0312 0174 0353 0353
	(XEBB12)	2385.7		.3010	0466 0391 136 127 155 155	2385.7		.3010	0520 0370 1028 1297 8596
				.2510		• •		<u>8</u>	0826 0902 2450 8556 3348
		594.31		.2040	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	594.31		.2040	1069 1142 1056 2056 3922
-	FUSELAGE	# 200 *		0771.		6 6		.1770	
11-073-1	98	o		1660	33905 - 38905 - 38905 - 38905 - 38905 - 38905 - 38905 - 38905	0		.1660	- 1237 - 1285 - 1477 - 1694 - 1958 - 2275
- 0A148 (AMES 11-073-1	-140A/B/C/R	.59654	LE CP	.1580		.59654	RE CP	.1580	
- 0A148		MACH ==	T VARIABLE	.1120	2.1810 2.1810 3.1386	MACH =	IT VARIABLE	.1120	. 1424 . 1273 . 1204 . 0885 . 0348
PRESSURE DATA	11-073(0A148)	.160 MA	DÉPENDENT	.0700		4.215 M	CEPENDENT	.0700	
	AMES	a		.0460	2895 2896 3996 3996 3996 3735 3735 3735 3735 3735 3735 3735 373	li li		.03+0.	0830 0830 0286 0131 0131
TABULATED		BETA (3)	GE	.0230		BETA (4)	NGE	. 0230	0430 0318 .0546 .1170 .1593 .2001
		.058 86	1) ORBITER FUSELAGE	.0080	.5987. .0257. .07790778	See	P FUSELAGE	. 0380	. 3469
57			1) ORB1TE	.0000	1.0898 1.0898 1.0898 0520 0807 0807 0803 0803	?	1 10RBITER	0000	1.0746
DATE 10 FEB 76		A.PHA (2)	SECTION (X/LB	PHI	ALPHA (2)	SECTION 6	X/LB	PH1 -000 -20.000 -46.000 -76.000 -76.000 -96.000 -17.000

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13				5740							4.819		57.0	. 0338
PAGE				.4970	0207	0198	0226				•		.*970	0220 0237 0013 0066 0568
	(XE8812)			.3780	0551	0548	0529				7/NS /		.3780	0442 0454 0454 0682 0873
	83X)			.3010	1314	1268	1202				. 2385.7		.3010	0688 0520 1173 1314 2805 1547
		•		5158	- 285	2420	2336				•	•	.8510	1004 1070 2587 3013 2915 2915
		•		.2040	4820	-1.0775	-1.2856	1.0460	. 0985 0029		594.31		2040	- 1241 - 1358 - 1568 - 3015 - 4417 - 5233 - 5529 - 6852
- -	FUSELAGE			.1770	1382	0 9		1.0180	. 2333		6 0		0771.	25.63. 25.63.
AMES 11-073-1				. 1860	.2678	¥60±.	.4256	0666		3284 3284	o		. 1850	1888 11988 11888 11888 11888 11888 11884 11844 1
~	-140A/S/C/R ORB		BLE CP	.1580		1	. 5646	.9600	. 0500 - 0090 - 1607 - 2075	3270 2709 2149	.59654	RE CP	.1580	020s.
A - 0A148	(0A14B)		NY VARIABLE	.1120	7561.		.2433	.9210	1046 0967 1012 1726	3376 2443 2430 2621	HACH -	IT VARIABLE	.1120	
PRESSURE DATA	AMES 11-073(0A148)	4.215	DEPENDENT	.070	. 1515		.2235	.8790	1336 1736 1138 1881	4301 3499 2910 1503	B.271 M	DEPENDENT	.0700	. 1394 . 1570 . 1564 . 1361 . 1599 . 1599 . 0917
_	AME	* :		.0460	.2350		.2753	.8210	1562 1662 .0150 .0150	.0916 .2575 .3715.		•	.0460	
TABULATED		BETA (4	AQE	. 0230	. 3233		.3725	.7790	1205 1.58 0757 0188	. 1705 . 1705 . 2020 . 1949	BETA (5)	AGE	.0230	0530 0632 0146 .0146 .0703 .0703 .1395
		.052	1) OPBITER FUSELAGE	. 0080			5712	.7290	0731 1565 0929	0314 0512 .0787	.0+8	HORBITER FUSELAGE	.0080	. 1000 *001
8. 27.				.0000			1.0746	.6520	0491 0565 1382 0838		-	11088111	.0000	1.5203
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	PH1 1%C.000 151.000	165.000 169.000	180.000	X/LB	70.000 70.000 90.000 105.000	135.000 135.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	PH - 000 - 20 - 000 - 20 - 000 - 000

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DATE 10 FI	FEB 76		TABULATED		SURE DAT	A - 0A14	PRESSURE DATA - DAIMB (AMES 11-073-1	11-073-1						PAGE	17
				AMES		11-073(0A148)	-140A/B/C/R	978	FUSELAGE			(XE8812)	812)		
ALPHA (2)		B 8+0.	BETA (5)		8.271										
SECT I ON	(1) ORBITER	TER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP				•				
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	3010	3780	0794	5740
PH1 180.000	1.0203	#36 1	.3209	.2261	.1667	.1979		1885		-1.3009	265#	1504	0923	0690	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460				•	
PHI - 000 70.000 92.000 105.000	0538 0469 1489 1990	0787 1812 1185	1237 1061 1165 0647	1807 1632 0232 0318	1366 1738 1504 £315	1092 1022 1242 2183	.0370 0133 1684 2420		.2168	.1003					
135.000 135.000 150.000 165.000	0697 0478 0435	0741 0110.	0066 .0742 .1035 .1138	1403 .1236 .3794 .3329	- 5643 - 4525 - 4590 - 2958	4299 3461 3710	3871 3365 2904 3567	- 3824 - 3543							
ALPHA (3)	n	3.956 BE	BETA (1)	•	-7.937 MA	MACH .	.59690	o	* 595.02			2385.7	RAVI	•	8206
SECTION (1) ORBITER FUSELAGE	ŠĒ		DEPENDENT	T VARIABLE	LE CP		· ·						
X/LB	0000	. 0090	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	5153	.3010	.3780	.4970	5740
PH1 .000 .20.000	1.0434	0684.	. 1445			1033	,,	. 0830	• •		0658	1040.	0147	.0210	.0281
55.000			.3640 .5011			0290	•	0913	• •	+160	0487	0052	.0067	.0163	.0395
70.000 90.000 120.000 140.000		.7086	. 5336 . 5298 . 4658	.3341 .3462 .3145	.2255 .2469 .2178	. 1553 . 1755 . 2226		.0323 .0390 .1439	•••		1384 1728 2857	0435 0776 2990	0016 0269 1698	.0065 0070 1637	
150.000			.3273	.2097	. 1451	. 1879		.4737		.5683	4769	2053	- 1217 -	1048	
162.000 165.000 169.000							ļ	82S4.	.0927 -1	. 2805	. 3431	. 1958	- 6911	. 0920	
180.000	1.0404	.4380	.2028	.1532	9760.	.1374	cs 10.	.2395	7	1425	2910	177e	- 1060 -	0796	
X/L6	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180 1	.0460					
. 000 . 000 . 000		0270	0763	1327 -	- 1080	0897 0586	.0590		.4186 .312	. 1090 . 0548					

1、《中文》,为《河南》《河南》,《西南《西南·西南·西南·西南·南南),《西南·南南南·南南),第一个大学,《西南·南南),《西南·南南),《西南南),《西南南),《西南南》,《西南南》,《西南南南

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AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE - 0A148 (AMES 11-073-1) DATE 10 FEB 7

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.0416 5740 .0563 4.8206 .¥970 .0395 .0236 -.0167 -.0253 -.0979 -.0467 -.0558 . 2 X Z .3780 .001 -.0350 -.0471 -.077 .0214 -.0831 -.0638 2385.7 -.1582 .3010 -.0219 -.0853 -.1129 -.2753 -. 1429 -. 1698 .0047 .8510 -.1913 -.2139 -.2976 -.0459 .0388 8414. -.2633 -. 2983 - 0618 - 0728 - 0933 - 1455 - 1455 - 2850 - 4032 - 4032 .2040 1.0180 1.0460 -1.2509 -1.4726 1.0460 . 1069 . 0387 595.02 170 1.0180 3087 3072 .9569 975 . 9990 -.3503 -.2820 -.0691 -.0829 -.0772 -.0353 -.0448 -.0429 .1660 . £85 4269 0666. -.3562 .3320 ø -.1605 -.1800 -.1304 -.3158 -.1973 -.2042 -.1572 .1580 .9600 .59690 .5936 .9600 ..0613 -.0187 -.1000 -.1694 -.2137 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1362 -.0999 -.0809 -.0257 .80 .0296 -.0491 -.0853 .1120 -.0637 -.0151 -.0905 -.1379 -. 1812 -. 1390 -. 1201 -.0749 -.0296 .0460 .0774 .0891 9610 . 1800 .1664 ¥Ģ .0075 .0075 .0630 .8790 -.1773 -.1681 -.1865 -.1865 .0700 -.0257 -.0355 .0209 .1321 .1319 .1443 -.1048 -.1515 -.0108 -.0653 -.2399 -.2163 -.1928 .1376 . 1231 .879D -3.898 -7.937 -.13+1 -.1,36 .1210 .1522 .2588 .8210 3275 3736 8775 5160 3822 1385 7444 .0460 0208 0471 0990 2750 2750 2750 2751 01575 01575 2105 . 1657 .8210 3337 BETA (1) BETA (2) -.0033 .0614 .1025 .2019 .2036 .2036 .1621 .1355 .7790 . 02::0 1605 1605 3701 4653 4653 4653 3980 2395 -.0636 -.0570 -.0455 .0221 .0768 3147 9677. .2320 .2350 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .7290 -.005 -. 1401 -. 0834 .0037 .0080 -. **1817** -. 1165 -.0365 .5332 375 .4516 -.0135 -.0754 .7290 .0423 3.958 3.956 -.0908 -.0786 -.0768 -. 1956 -. 1364 .6520 .0000 -. 1886 .0773 . 2264 1545 1545 -.1318 1.0775 .6520 . 236 ALPHA (3) ALPHA (3) PH1 70.000 105.000 1110.000 135.000 185.000 26.000 25.000 25.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0 70.000 20.000 90.000 105.000 110.000 135.000 X/LB Ē X/LB X/LB Ē

(XE8812)

AMES 11-07310A148) -140A/8/C/R ORB FUSELAGE

-3.898

BETA (2) =

3.958

ALPHA (3) =

DATE 10 FEB 76

			4.6205		.5740	. Ov 78	. 0650								
			9.		•	•	•								
			٠		.*970	.0%12	.0309	1744	0373	0543	0326	0271	0245		
			FBN/L		.3780	0600.	.0168	7 430 -		0789	0610	85±1	0548		
			2385.7		.3010	0139	0010	1.51	_		1463	136	1262		
			•		.2510	0419	0507	2000	800		35!4	2722	2571		
	1.9460		595.02		.2040	0573	0783		3011	4.3663 4.4610	6379	-1.2242	-1.4299	1.0460	9000 9000 9000
	1.0180		. 39		.1770							. 0.3+60. 	•	1.0180	¥785. 1175.
	3666.		O		. 1660	0646	0734	0931	1235	0175	.3362	5117.	.3800	0666	- 3638 5863
BLE CP	.9600	3262	. 59690	BLE CP	.1580								.5760	.9600	
DEPENDENT VARIABLE	.9210	1102	MACH =	DEPENDENT VARIABLE	.1120		0357	01.15 0.15	-600 -	.1167	. 1569		.1788	.9210	0874 0701 0624 1394 1828 2391 1816
DEPENDE	.8790	.0248	. 162 н	DEPENDE	.0700	0185	0311 0064	.0.6.	.0534	.0892	.1151		.1316	.8790	1031 1523 0694 1451 2201 2005 2651 2651
	.8210	.3562			.0460	.0356	2.00 5.40 5.40	9191	1316	<u></u>	. 1962		. 1814	.8210	1313 1248 .0653 .0754 .0952 .3392 .3392
AGE	.7790	.1984 11911	BETA (3)	AGE	.0230	1229	. 1.58 . 2.43 	3+0-c	.3107	.3135	.2848		.2585	.7790	0564 0518 0653 0653 .0653 2032 2032 2032 128
er fusel	.7290	. 0560	3.957 B	ER FUSEL	. 0080	5343			.4262				.4516	.7290	0148 1283 0188 .0476
110001	.6520	0282 0362		1.10RB! TI	.0000	1.0833							1.0833	. 5520	0207 1630 0918 0257
SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (3)	SECTION (1) ORBITER FUSELAGE	X/LB	1H4 000:	40.000 1000	20.000	99.000	120.000	000.7	165.000 165.000 169.000	174.000 180.000	X/LB	PHI -000 70.000 90.000 105.000 110.000 135.000 150.000 165.000

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	ຄ	PAY.		.3780	.0046	.900.			0597	- ,0638	,	- 0643					i	HAY.		.3760	0061	0319	0619 0485	
	(XE8812)	2385.7		3010	0:.03	. 0235			- 7141	- 1369		- 1381 -						2385.7		.3010	0344	0623	**************************************	
		•		55.	- 1550.	- 4970.	•	3407 - 3407 -	- 3260 -	- 1792	•	2605						•		<u> </u>	0592	1239	2767 3524	
		<u>م</u>		0402	•	1		- 3306 -	-	- 1.1994 -		-1.4308	04.60	.1097						.20%0	0829	1536	. 5095. - 5097.	
_	FUSELAGE	- 595.02		173	•	1 1				1478		7	1.0160.1	. 2483				. 595.02		170	·			
1-073-1		•		. 1660	.0733	0809 0926	1459	1937	.2387		.3574	.3631	1 0666.		0006	Wile.		a		. 1660	0839	- 1058	1961 2220 2394	
C AMES 1	-140A/B/C/R ORB	.59690	65 E	1580	. ,			• •				0010	.9600	. 0002 1615		3017	5. W. 70	.59690	LE CP	. 1580				
- 0A148 (AMES 11-073-1		•	VARIABL	.1120		0810	0.797	0674	.1075		٠	.1718	.9210		- 1715 - 22-55	3152		· tach	T VARIABLE	.1120		10%9	. 146 2. 146 2. 146 3.	
RE DATA	ES 11-073(0A148)	OZ MACH	DEPENDENT VARIABLE	.0700	G120	1.05		- 0410 - 038	.0769			. 1248	.8790	1069		4048		8.252 .th	DEPENDENT	.3760	0522	0853	- 1378 - 1378 - 1378	
TABLE ATED PRESSURE DATA	AMES	. 4.202	•	.0460				9810				.1726	.8210	1346		. 2976 . 2976		•		.0460	1410	0130	0561 0787) } •
TABLEATE		3 2	w	.0230	9	940	1730	1914	.2322			.2536	.7790			.0616	177. 227. 1986	BETA (5)	J.	.0230	57.00	0.098	0555 0554 0752	,
		¥ 8£7A	FUSELAC	.0000	8	.3163		80.				42.10	.7290		1507	0538	. 05.42 54.20		DORBITER FISELAGE	. 0080	0001		.072	
¥	?	3.954	1) ORBITER FUSELAGE	.0000	į	, to						1.06**	.6520	955 875		0773	0247 0290 0307	3.960	110901	.0000		3010-1		
25 and 14 and 18		KPW (3)	z	X/LB	17	20.000	55.000	90.000	150.000	151.000	165.000 169.000	174.000	X/LB			110.000 120.000 135.000		=	SECTION 1	X/LB	Ē	20.000	25.000 70.000 90.000	127.000

BETA (5) =

3.960

ALPHA (3) =

SECTION (1) ORBITER FUSELAGE	10E		DEPENDER	PEPENDENT VARIABLE	RE CP									
7LB	.0000	.0090	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.8510	.3010	.3780	.4970	5740	
PHI 140.000 150.000			*! *!	++80·	9500.	. 034S		. 1009	3188	5820	3097	1531	0780	0557		
165.000 169.000 169.000								.2825		-1.2061	2767	166¥	0.00.	0704		
80.000	1.0102	.354.	.2082	. 1296	. 0823	.1285	.4330	.2692	•	-1.4309	2960	1764	1100	0890		
,r.	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460						
PH1 .000 .000 .70 .000 .000 .000 .005 .000	. 3052 . 0164 . 2481 - 1724	0186 2484 1736	0568 0580 1525 0913	1324 1181 0356 0495	1100 1580 1538 2399 3468	0918 0830 1274 2081 2613	.0002 0002 1675 2263		.4.133 .853 	.0982 .0012						
20.000 35.000 65.000	0955 0578 0640 0853	0865 0171	.0101 .0818 .1067 .1032	0565 .1077 .2896 .2632	5126 4795 4796 3540	3979 3359 3826 3950	3549 3247 2971 3402	. 3235								
PIK C 43	7.904		BETA (1)	7.	922 MA	MACH .	. 59690	a	. 593	595.02		2385.7	PRVL.	•	4.8202	
ECTION (1) ORB1 TE	1) ORBITER FUSELAGE	GE	-	DEPENDENT	IT VARIABLE	LE CP				•					
.18	.0000	.0090	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	. 0165	.3010	.3780	0.4970	.5740	
PH1 .000	6666.	.6486	.2327	¥100	.0578			0297		0262	0179	.0078	.0317	.6767	0.870	
40.000			.4876 6.83	. 25.25 25.26 25.26	1570			2000			.0369	.0703	7180.	. 0903	.1314	
56.88 8.88 8.88 8.88 8.88 8.88 8.88 8.88		.6488	5752 5784 . 3579	.3074 .3074 .2163	. 2266 . 2266 . 1227	. 1565 1.1567 1.1422		0435 0435 0387 1046		0722 1498 2520	1543 1875 3472	0776 1152 4150	0442 0740 3054	0407 0654 3087		
50.000			.1962	0560.	.0428	.1034		.4228		4103	5571	2497	1592	1545		
65.000 65.000 74.000							9996	.3950		-1.4405	3818	2169	1381			

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<u> </u>				5740					4.8202		.5740	.0862	1,835						
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	(2)			.3780	1109				FRVL		.3780	.9311	.0735	0330 2191	1096	1.69.	0746		
	(XE8812)			.3010	1759				2385.7		.3010	.0245	.0556		1972	- 1761	6441		
				.2510	3104				Q.		Ş	0007	.0116	2071 2339 3532	4742 ·	. 3273	2815		
				.2040	-1.7439	1.0460	. 0592				.2040	.0067	9800		. 6919	. 3975	.6117	1.0460	.1198
~	FUSELAGE			.1770	•	1.0180	.3315		- 595.02		0771.	•	, , ,				7	.0180	.335
11-073-1				.1660	9171.	0666.	į		•	'	.1660	0097	505	0301 0394 . 0474	.3819	.3883	.2692	. 9990	
(AMES	-140A/B/C/R ORB		LE CP	.1580		9600	.0759 0102 0640 1559	1688 2074 1514 3206	.59630	.e. cp	.1580	•	•			É		.9600	.00%
- 0A148			T VARIAB	.1120	9020.	.9210	0643 0253 .0383 0412	1514 1388 1027 0388	•	VARIABLE	.1120	8	0730	.0849 .0835	.1030	·	. 0983	.9210	0637
PRESSURE DATA - DAIWB (AMES 11-073-1	11,073(04148)	226	DEPENDENT VARIABLE	.0700	6110.	.8790	- 0759 - 1174 - 0516 - 0504	2049 2236 2469 116	391 MACH	DEPENDENT	.0700	19751	.1310	1389 1270 4283	.0455		.0334	.8790	0709 171
	AMES	-7.922	_	.0460	.0497	.8210	0858 0682 1751 2240 3910	. 5383 . 3382 . 0486 . 1389	-3.891		.0460	.1442	.2239 2615	.2351 .2086 .1625	.1065		0770	.8210	0854
TABULATED		TA (1)	ы	.0230	.0940	.7790		. 151. 7.161. 1656 1973	(S) A	w	.0230	2548	. 1302 1305 1615	*165 3863 3000	. 1869		.1163	.7790	- 0109
		34 BETA	PUSELA	.0080	.2837	.7290	20%2 1473	1638 0398 0176	3 BETA	FUSELAGE	.0090	.6870		¥13:			.2950	.7290	- C++0.
8		7.904	11 OPBITER FUSELAGE	.0000	. 9999	.6520	.0791 .0943 3017	.3342 .1395 .1114 .1061	7.913	1) ORBITER	.0000	1.0331					.0331	.6520	.0961 .097 5
DATE 10 FEB 76		ALPHA (4)	SECTION (X/LB	PH1 180.000	X/LB		135.000 135.000 150.000 165.000	ALPHA (4) =	SECTION C 1	X/LB		40.000 50.000	20.00 120.00 00.00 00.00 00.00	150.000	162.000 165.000 169.000	_	X/LB	PH1 .000 \$0.000

DATE 10 FEB 76

(XEBB12)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					4.8202		.57¥0	. 1020	1301								
							0.6¥.	+160.	.0585	0839	1303	065¥	0469	0488			
					FBN/L		3780	.0528	.0521	- 1056		- 10801	. 2480.	0635			
					2385.7		.3010	0220	. 0209			1630	1456	- 1395			
					•		.2510	.0053	0272			4017	. 2958	E707			
		1.0460					.2040	0087	0.40		- 3955		-1.4435	.9455	1.0460	.0348	
		1.0180			s 595.02		.1770	•		·. · ·	• •		1000	-	1.0180	.4331 .2594	
		9880		2816 - 2816	G		. 1660	0033		1031 1153	0254 	.2996	.3553	310	0666		3565 2886
	LE CP	:9600	0896 1574 2119	1901 2083 1591 3118	.59690	LE CP	1580							3	.9600	.0159 .0159 .1273	
	DEPENDENT VARIABLE CP	.9210	0039 0850 1343	1903 1598 1436 1198	• 5	T VARIABLE	.1120		.0385 0385 0385	2000 0000 0000	9170.	.0895			0126	0619 0590 0590	
-3.891	DEPENDEN	.8790	0044 0556 1293	2554 2413 2198 0178	.160 MACH	DEPENDENT	.0700	.0746		2.5.5 2.0.8 2.0.8	.0320	. 0332		.0524	.8790	0665 1168 0706	
		.8210	.1181 .1517 .2653	. 1975 . 1676 . 1326 . 3179			.0460	\$0.00 \$0.00		82. 82. 75.		. 1063		.0936	.8210	0856 0697 .0561	
BETA (2)	Ä	.7790	0853 0135	.2033 .2058 .2068 .1661	BETA (3)	¥	. 0230	2885	. 25 E	28.5°	. 233 1	.1750		. 1399	.7790	0093 .0047 1187	
	R FUSELA	.7290	2517 1778	0769 .0136		R FUSELA	.0080	.6845		.3681				.2967	.7290	.050+ 2739 1888	0554
- 7.913	110RBITER FUSELAGE	.6520	3378	2334 0929 0715	= 7.912	DORBITER FUSELAGE	. 0000	1.0450						1.0450	. 5520	. 3539 . 3539 . 2564	- 1579 -
ALPHA (4)	SECTION (X/LB	PHI 76.000 90.000 105.000	135.000 135.000 150.000 165.000	ALPHA (4)	SECTION (87/X	PH!	40.000	70.000 90.000	120.000	150.000	165.000 165.700	180.000	X/LB		105.083 170.083 175.000 175.000

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PAGE						•		2/64.	.0880	3.	0568 0580 0717	0502	0469	0590					
	(S)					1		.3780	.0545	.0151	1199 1056 0935	0618	0685	0794					
	, txEBB12)					- 2385.7		.3010	.0262	0223	1721 1702 2693	1530	1406	1464					
						•		9310	0023	0809	2804 3585	3516	2859	2829					
	٠			1.0460		595.02		.20%	0128	0391		5561	-1.3069	-1.5235	1.0460	.0148			
_	FUSELAGE			1.0180		. 20		<u>6</u>					1973		1.0180	.4340 TTT3.			
11-073-1	./R ORB F			3686		ø		. 1660	0137	0317	1507 1530 1735	.2083	CZUZ	3001	.9990		7017	- 3000	
(AMES	-140A/B/C/R		LE CP	.9600	3124	.59690	R CP	.1580						.4635	.9600		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2824 2681 2282 3253	
- 0A148	04148) -		DEPENDENT VARIABLE	.9210	2124	MACH	DEPENDENT VARIABLE	.1120		0094	- 0596 - 0596 - 0615 - 0615	.0570		.0993	.9210	0518	1059 1760 2323	3003 2563 2761 2905	
TABULATED PRESSURE DATA - DAINB (AMES 11-073-1	AMES 11-073(0A148)	.160	DEPENDEN	.8790	1079	4.204 M	DEPCNDE	.0700	203	.0330		.0800		6+£0°	.8790		1220 2039 3080	3825 3749 3569	i i
55384 03	AMES			.8210	.4652	4	•	.0460	342	35.	0414 1520 178 178	10.00 10.00		.0802	.8210	0862	0030 0184 017	.34651 .3465	.2832
TABULAT		BETA (3)	10E	.7790	. 1522	BETA (4)	NGE	.0230	Š		1691 1670 1670	80. ISI.		.1379	.7790	0131	- 1551 - 0684 - 0156	.0182 1517 1501	
			R FUSEL	.7290	.0317		R FUSEL	0800	Ş	8/99·	¥105.			8	.7290	7640.	2955 2076	1051	.0256
1 2		= 7.912	1) ORBITER FUSELAGE	.6520	051%	- 7.910	110PBITER FUSELAGE	. 0000		1.0255				1.0255	.5520	. CE 25.	388	1368	. 0705
DATE 10 FFR		ALPHA (4)	SECTION (X/LB	PHI 165.000	2			Ŧ.	20.000	*6.200 55.000 70.000	120.000	151.600 162.000 165.000	169.000 174.000	X/LB	PH:	70.000 90.000 105.000	110.000 120.000 135.000	180.000

ä		4.B202		5740	.0803				¥.8162		376	į.	8 8
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	112)	1 REV.L		.3780	. 0346 0309 1369 1050	0895			PB/A		3780	.69C	
	CXEBBIS	2385.7		.3010		1559			2385.7		.3010	759	1360 1511 16631
		۵.		933	1606 3019 3038 3038	3238			•		310	8	. 1789 2200 4311
		595.02		.2040	0260 0661 1367 2673 3012	6145 7785 -1.3008	1.0460	. 1037			.2040	1070. 10576	
· <u>-</u>	FUSELAGE			0771.		- 3378 - 3233 -	1.0180	. 2397 2005.	= 594.43		5771.		• • • •
11-073-1		ø		. 1660	- 0269 - 0494 - 1138 - 2259 - 2352 - 2352	.2358	0666.		a		. 1660	.0451 .0670	.0760 .0760 .0389 .0196
PRESSURE DATA - DAINB (AMES 11-073-1	-140//B/C/R ORB	.59690	BLE CP	.1580		.4621	.9600	. 1640 . 1640 . 1757 . 1757	.59650	LE CP	.1590	·	
A - 0A14	11-073(0A148)	MACH .	NT VARIABLE	.1120	- 0336 - 0835 - 1681 - 1634 - 1234 - 1270	0600	.9210	- 0680 - 0567 - 1276 - 1931 - 2678 - 3799 - 3843 - 4013	MACH =	IT VARIABLE	.1120	.0999	. 1939 . 1808 . 1570 . 1213
SURE DAT	S 11-073	8.256 H	DEPENDENT	.0700	. 0405 - 0050 - 0519 - 1382 - 1227	0072	.8790	0749 1370 1617 2430 3779 5118 4581 4681	-7.879 M	DEPENDENT	.0700	1521. 1791	885 885 885 885 885 885 885 885 885 885
	AMES			.0460		.0383	.8210				.0460	.2302 .2913	7865 2803 2775 2775 2769
TABULATED		BETÅ (5)	AGE	.0230	. 1787 1787 1256 0590 0327 0483	.0561	. T30	0155 .0038 1976 1949 0970 0561 .0561 .0561 .2580	BETA (1)	띯	.0230	. 4574	2839 2803 2693 2704 27875
		7.909 B	ER FUSELAGE	.0090	.6312	8	.7290	. 3213 3213 2352 1421 1421		R FUSELAGE	.0080	.7763	1563
8 7		. 7.0	1) ORBITER	. 0000	.	7896.	.6520	. 1396 1396 1396 1396 1396	11.950	13 ONB TER	.0000	.9306	
DATE 10 FEB 78		ALPHA (4)	SECTION (X/LB	70.000 70.000 70.000 70.000 90.030	150.000 151.000 151.000 162.000 163.000 174.000	X/LB	46.000 105.000	ALPHA (5)	SECTION (X/LB	PHI .000 20.000	25.96 26.960 26.960 26.960

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5740 5740 .1576 1926 ¥.8162 <u>\$</u> SP4. 0.64. -.1565 -.1523 -.2211 .1580 57.11. -.0806 -. 1001 -.0711 -. 1666 Z .3780 -.1596 .1163 -. 1012 -.0785 3780 .083 -.0783 -.0696 (XEBB15) 2385.7 -. 1508 -.1987 -.2118 -.3873 .3010 3010 -. 1887 .0866 - 940t -. 1551 -. 1405 <u>8</u> -. 2939 . 5 5 5 -.2836 -.7998 -.4352 ¥10:--.4435 -.3176 -.em .0631 .2040 -1.8456 -1.7118 .2040 1.0460 .1314 -1.4571 1.0460 59.43 AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE 170 1.9180 .4623 3354 1770 1.0180 .3192 TABULATED PRESSURE DATA - DAINB (ANES 11-073-1) .9990 . 1660 -.3487 -.2996 .0608 .0398 .1032 -.1097 -.1099 .2097 . 1660 9990 2715 2966 .2581 O . 1038 . 0331 - . 0792 - . 1495 - . 2098 -.1944 -.2317 -.1781 -.3115 . 1580 .9600 . 1580 .59660 .1012 .9600 .4611 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0326 -.0009 -.0024 -.0797 -.1960 -.1782 -.1444 -.1882 .9210 .1120 .1120 .0995 .0984 .0092 .0001 4466. .9462 -.0325 .9210 .156 MACH -.0233 -.0788 -.0156 -.0568 -.2595 -.2403 -.1678 -.0084 .0700 .1665 .1665 .1627 .0735 .0177 .8790 -.0453 .0700 -. 0**288** -. 0882 -,0281 .8790 -.0476 -3.871 -.0272 -.0062 .0319 .1297 .0460 .8210 -.0165 .1507 -.0263 270° 2650 2550 1571 1577 1577 1577 1577 1577 0110 .8210 .0460 14421 -.0042 BETA (2) - 11.970 BETA (3) .0230 .0573 .0804 -.1415 -.0558 .0832 .0825 .0658 .0634 .1235 -.0090 .7790 .0230 .0577 .0712 .4140 .4209 .4271 .3293 .2600 .2182 .2182 .1339 0093 1790 0551 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 -.3365 .1151 .7290 .0080 -.0760 -. 0092 .8245 2825 .1161 -. C884 1190 7290 . 1200 1.968 -.1908 -.132 .1578 .1880 -.4784 .0000 .9595 .6520 -.3111 .0000 .6520 . 1593 . 1748 ₽996. .986t DATE 10 FEB 76 ALPHA (5) . ALPHA (5) PH 180.000 40.000 90.000 105.000 110.000 1150.000 1150.000 1150.000 1150.000 1150.000 .000 40.000 X/LB X/LB Ē X/LB X/LB

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						:	7						•	•	•		•	
(2)							FBV.L		.3780	.1106	.0338	1831	1597	0799	0711	•	0775	
(XE8912)							2385.7		.3010	.0787	0286	2322	3266	1621	- 1445		144B	
							Q.		<u> </u>	.0543	1069	3222	3911	3873	3018		2922	
			1.0460				594.43		.2040	.0482	- 0845	2707	3556 4680		-1.3989	_	-1.6904	
J JSELAGE			1.0180				* 60 *		.1770						ų.	•		
RESSURE DATA - CAI48 (AMES 11-073-1) AMES 11-073(CAI48) -140A/B/C/R ORB FUSELAGE			0666	yes.	2861		ø		. 1660	.0572	.0293	1872	1701	1721		1965	.2438	5
TABULATEC PRESSURE DATA - OA148 (AMES 11-073-1 AMES 11-073(OA148) -140A/B/C/R ORB F		LE CP	.9600	1195 1765 2304		3092	.59660	LE CP	.1580							18	<u> </u>	
- 0A148 0A148) -		DEPENDENT VARIABLE CP	.9210	0637 1270 1823	2387 2181 2019		MACH .	DEPENDENT VARIABLE	.1120		.0580 .0186	1161	0694	.03			.0331	
URE DATA	.156	DEPENDEN	.8790	0893 1517 2283	2845 2997 2658		4.216 M	DEPENDEN	.0700	. 1655	1269	0390	9.00°-	0691			0445	1
EC PRESS			.8210	.0171 .0453 .0958	.3136 .3136	7564.			.0460	2535	2284	0342	0130	0133	•		0109	
TABULAT	BETA (3)	¥	.7790	1780 0804 0166	.0534	1595	BETA (4)	GE	.0230	7970	3645	950	2011.	.0286			.0160	
		R FUSELA	.7290	3621 2596	0999	.0092		CR FUSEL	. 0800	9000			.1169				.0913	
5	• 11.970	1) ORBITE	.65.20	4974 3567	2071	0844 0815	a 11.968	1.10RB1TE	.0000	Į.							£ 9.	
DATE 10 FEB 76	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	x/L8		110.000 120.000 135.000	165.000 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	E E	20.000	35.000 35.000	90.00	140.000 140.000 150.000	151.000 162.000	165.000 169.000	180.000	

. 1645

-.1874 -.1513 -.1255

-.0783

-.0679

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-1.6904 1.0460

P+36 0666

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.9210 .0331

9790 -. 0445

.8210

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.6520

.0913 .7290 .4623

-.0326 -.0256 -.1078 -.1779

-.0231 -.0409 -.0614 -.0614

-.3823

1585 1650 - 4904 - 3578

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-.2817 -.2634 -.2265

-.3976 -.3655 -.3664

. 3731 . 4371

-.0373 .0800 .397

-. 1520 -.0305

-.1857 -.0926

40.000 70.000 90.000 105.000 110.000 125.000 135.000

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BETA (4) =

ALPHA (5) = 11.968

DATE 10 FEB 76

SECTION (1) ORBITER FUSELAGE	1) ORBITE	ER FUSELA	ige Ige		DEPENDE	DEPENDENT VARIABLE	KE CP								
/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	3666.	1.0180	1.0460					
PHI 165.000 180.000	0809	0082	12%1	¥69¥.	2333	2981	3084								
LPHA (5)	e 11.959		BETA (5)		.279 m	MACH =	.59660	ø	* 594	594.43	•	2385.7	RN/L		4.8162
SECTION (1) ORBITER FUSELAGE	1) ORBITE	R FUSELA	GE		DEFENDENT	IT VARIABLE	KE CP								
/LB	.0000	. 0080	.0230	.0460	.0700	.1120	. 1580	. 1660	1770	.2040	.2510	.3010	.3780	.¥970	.5740
PH1 .000	8168.	7557.	.3718		1325			96.59		-0345 	.0447	.0644	9460.	1368	.1426
			5171.		0126	.0783	-	1105		1894	2053	- WII	0332	.0390	1359
25.000 20.000 20.000					- 1569	1367	,	2243		25. E			•	2202	
90.000		0597	.0025	030	13%	1255		2264				- 2185	- 1582 -	1516	
1*0.000 150.000			0402	0553	1102	0350			á		. 45 45 ·-	1563	0695	0698	
162.000 165.000 169.000								.1847		-1.3486	3045	- 1641	- 4160	1014	
174.000 180.000	.8918	.027	0146	0362	0863	0017	五型.	1741.	•	-1.7804	3233	. 1928	- 1296 -	- 136 - 136	
/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666	3.0186	1.0460					
PHI 	. 1414 . 1395 4935 3633 2656 1012 1016	. 2303 - 2303 - 2303 - 640	9469 			. 0316 . 0381 . 1502 . 2926 . 346 . 4020	. 0990 . 0257 . 1681 . 1958 . 2840 . 3197 . 3197	3634 3010	6885 6885 7	. 1380					

181	ъ -	•	35.000 .000 1.400	2.9118		K.	0557	063							•				
PACE" 187	95 AUG			•		.4970	0582	.0935	90.00 90.00		. 1595	0784	0952						
	_	COATA	SPOBRK L-ELYN MACH	FRV/L		.3780	- 0366 -	- 0880 -	0532	•	- 1947 -	- 0411	- 1204 -						
,	(XEBB13)	PARAMETRIC	900	* 440.65		.3010	0238	1641	0959		1645	1600	1391						
r		-	RUDDER ** BOFLAP ** R-ELVN **	•		.2510	0065	1665	1890	•	2869	2423	2823						
			€8	- 56		.2040	0249	1759	1414	. 15£3 1188	0923	1415	2449	1.0 4 60	.838. .8505				
	FUSELAGE			s 599.93		1770	ř				74.18	##08·		1.0180	2614				
PRESSURE DATA - DAINB (AMES 11-073-1	88			ø		. 1660	0539	0550	8275. 8755.	.5649	1.0012	5130	. 9993	.9990		•	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
S C AMES	-140A/3/C/R			1.3946	PLE CP	.1580							1.0941	.9600	2698	. 0593 - 0486	0293	1090	,
A - 0A146	11-073(04148)		828	MACH	NT VARIABLE	.1120		0762 0510		.4730	.5604		. 5590	.9213	-,2095	•	0527	1959 8868)))
SURE DATA			6800 IN. 0000 IN. 0000 IN.	-3.886 M	DEPENDENT	.0700	.0109	.0617	.3327 .3141 .2040	. 4.4B2	.4857		¥274.	.8790	• •	1509 1709 0305 0305	2570.	1740	•
_	AMES		1076.6800 0000 375.0000			.0460	.0833	. 1893 1246	4133	.6106	6432		.6047	.8210	1.0951	.238°	8883.	.4161	.4510
TABULATED		2	diskix diskix	BETA (1)	AGE	.0230	2035	1823 1833	.5931 .6862	.8127	.7946		.7328	.7790	0383	2085. 2085.	.3576	478K	SE.
		REFERENCE DATA	50.FT. IN.	90	R FUSEL	.0080	6728		6				1.0261	.7290	0213	.0160 .0566	.0609	.0462	.0183
B 76	ļ	REFER	2690.0000 474.8000 936.0680	-4.106	(1) ORBITER FUSELAGE	0000	4747	•					3.474.1	.6520	0199	. 0836 . 0933 . 0933	.0377	0050	26. 26. 26.
DATE 10 FEB 76			SAEF = 2 LREF = BREF = SCALE =	-	SECTION (X/LB	E	. S	55.000 70.000	120.000	150.000	151.000 162.030 165.000	169.000 174.000 180.000	X/LB	H	20.00 20.00 20.000 20.000	110.000	150.000	165.00u 180.000

88		2.9118		.5740	0523	0416								2.9118		.5740	0634	
PAGE				.4970	0484	0748	.0090 .0051	0719	0767	9 771				•		67 9.	0571 0758	0805
	33	. RRV.L		3780	80+0	0601	. 1042 - 1253 - 1757	1358	120%	1147				T/NE		.3780	0342	
	(XEBB13)	440.65		.3010	- 0810.	. 1045 -	1643 2378 4018	•	- 1427	- 1069				440.65		.3010		*****
				.8510	6000	- 8411.	2404 2369 1812	.2961	.2739	- 1662				•		200		
		93 P		.2040	0291	0430		0690	- 1500 -	. 2903	.0460	2389 2389				.2040	- 044 - 0391 - 0809 - 0001	
~	FUSELAGE	= 599.93		.1770	•		•		7385		. 0180	. 2575 . 2634		= 599.93		.1770	••••	•
AMES 11-073-1	88	a		. 1660	.0583	.0519	. 1527 . 2010 . 4591	1626	0220	.0228	1 0666.		6261.	o		.1660	0620 0528 0408 .0380	. 1187 . 34.35
	-140A/B/C/R	.3946	e G G	. 1580	•	• •			,	1.0912	.9600	2701 2824 .0025 0313	1232 0191 . 0264 3038	1.3946	E CP	.1580	•••	
- 0A148 C		=======================================	VARIABLE	.1120		.0497	.0426 .1297 .1633	.5126		.5580	.9210	2075 1593 .0156 .0004 0531	. 0156 . 0156 . 1018	đ	VARIABLE	.1120	0430 0534 0103	.0715 .2819
PRESSURE DATA	AMES 11-073(0A148)	154 MACH	CEPENDENT	.0700			. 1695 . 2326 . 2321 . 2321			. 4905	.8790	1634 1675 .1079 .0627	. 0229 . 0789 . 1678	.249 MACH	DEPENDENT	.0700	.0235 .0020 .0311 .1032	
	AMES		٠	.0460	.0883	. 1130	.3324 .3862 .3807	.8115	·	.6055	.8210	- 0993 - 0929 - 2291 - 1862	.1382 .3949 .4154	g.	•	.0460	.0692 .0765 .0836 .1588	. 13805 1384
TABULATED		(S) A	tų)	.0230	.2110	25.55 2882 2882	.5052 .5864 .6418	.7430		.7382	.7790	.0345 .0568 .0046 .1485	.3002 .3902 .3991 .4014	(K (3)	Jų.	.0230	.2057 .2145 .3205 .4135	.5350 .6227
		O BETA	FUSELAGE	.0080	.6752		9797.			9110.	.7290	. 0139 . 0081 . 0394	.0571	39 BETA	FUSELAGE	0800.	.6577	96 79.
8		-4.030	1) ORBI TER	.0000	\$0. 5.					1 484 1	.6520	0163 - 0433 .6593	.0390 .0100 .0009 .0009	-4.039	1 ORBITER	. 0000	1.4627	
DATE 10 FEB		ALPHA (1) =	SECTION (1	X/LB	-	•	95.000 96.000	150.000	151.000 162.000 165.000	169.000 174.000 160.000	x/L8		110.000 120.000 135.000 150.033 165.000	ALPHA (1) =	SECTION ()	X/LB	747 20.030 20.030 20.030 20.030 20.030	90.000

8			1	ę.							2.9115		.5740	0277	0199			
:-AGE				0797	1238	1122	1026				•		.4970	0252	0426	0283 0334 0581	0879	0898
	E E			3780	1735	1406	1253				FRVL		.3780	. 9025	0205	0487	1480	1598
	(XEBB13)			. 3010	1775	1328	1520				19,034		.3010	.0128	0523	1528	2451	2256
				50	3040	3137	2866				•		50.	.0133	0524	1608 1484 140	3428	3077
			•	.2040	2017	1675	2636	1.0460	2301		500 01		.2040	7.0077	0521 0521	1805	1113	1957
_	USELAGE			<u>.</u> .		6615		1.0180			# 00%		.170				8	.7731 .7731
AMES 11-073-1	-140A/B/C/R ORB FUSELAGE			.1660	.846.0	7486.	1.0118	.9990		- 2428	c	,	.1660	0163	- 000 7.000	. 1525 1526 1526 1576 1576	.9724	1.0228
_	140A/B/C		LE CP	. 1580			1.0382	.9600	2710 2649 0345 0755	2922 1029 0635 3320	2050	00 J						1.0318
- 04148			T VARIABLE	.1120	.4567		.5497	.9210	2062 1622 0178 0553	1949 0564 .0139		. 8		,	0000	. 2205 . 2205 . 2775	.3853	
PRESSURE DATA	AMES 11-073(0A148)	4.249	DEPENDENT	.0700	9717.		.4863	.6790	1612 1639 . 0904 . 0363 0544	0646 .0328 .1232 .3488		19.505 mac	.0700	.0846	. 1584	.3326 .3326 .3366	.3566	
	AMES			.0460	.5728		.6116	.8210	0908 0791 0791 2317 2088	. 3470 . 3470 . 3594	525		.0460	. 1695	. 18%5.	.4361 .4800	. 5°5°	
TABULATED		BETA (3)	H	.0230	.6850		.7342	.7790	0462 0391 .0064 .1464 .2663	.3421 3675 3675	.3786	1	.0230	<u> </u>	.3670 .5349	.6986 .7316	.6843	
			R FUSELA	.0080			.9958	.7290	0179 0202 .0081	.0213	75		.0080	TTeT.		.9120		
3 5		a -4.039	DORBITER FUSELAGE	0000.			1.4627	.6520	0368 0217 .0453 .0750		0233	• 033	.0000	1.4800				
DATE 10 FEB		ALPHA (1)	SECTION (81/x	PH1 140.000 150.000	152.000 162.000 165.000 169.000	174.000 180.000	X/LB	PH1 40.000 70.000 90.000			ALPHA (2)	אירם אירם	1 H 9 000.	20.000 40.000	55.000 20.000 90.000	140.000 140.000 150.000	151.000 162.000 165.035 169.000 174.000

-.0926 .4970 -.0451 -.04.15 -.0624 -. 0230 -.0403 -.0700 Z 3780 - 1680 .3780 .0107 -.1062 -.1470 -.1689 -. 005t -.1558 (XE8813) 14.044 .3010 -. 1962 .3010 .0283 -.0349 -.1361 -.2172 -.3856 -. 2459 -,3365 . 5 5 .850 .0053 -.2136 -.2132 -.1977 -.0211 -. 3534 -.2972 .2040 -.2049 1.0460 -.0116 -.0209 -.0276 .0972 .1209 .0535 -.0307 .2040 599.93 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 1.0180 -.2042 -.2360 .170 1770 TABULATED PRESSURE DATA - CA148 (AMES 11-073-1) .1660 9990 .9530 -.2252 -.1840 -.0061 -.0004 -.0004 .0996 .1611 -.2238 . 1660 **₽86**₩ .9600 -.1365 -.0203 .0451 -.2486 1.3950 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .3718 .9210 -.1511 -.0860 -.0179 -.0228 -.1144 -.0267 .1178 . 144 MACH . .1120 .0192 .0368 .0956 .1394 .1599 3570 .0700 .3518 -.1012 -.1183 .0643 .0541 .8790 .0355 .0355 .0505 .0700 .0970 .0828 .1392 .2237 .2436 .2363 .2363 3373 .0460 .5033 .8210 .3290 .3290 .3353 .0460 1063 1767 2083 2939 3266 3724 4670 5249 BETA (1) .0230 .6065 .7790 . 0230 3309 3515 4717 5538 5924 5625 6553 6458 SECTION (1) ORBITER FUSELAGE SECTION 1 11CRBITER FUSELAGE .0080 .7290 -.0672 .897 .0097 -.0160 .0040 .0126 .0080 .7985 .7109 -.033 -. 028 1.4800 .0000 .6520 -.0017 -.0074 .0170 -.0211 -.0273 -.0287 -.0283 .0000 1.4851 DATE 10 FEB 76 ALPHA (2) ALPHA (2) PH1 180.000 40.000 70.000 90.000 110.000 120.000 135.000 155.000 180.000 20.000 40.000 75.000 76.000 16.000 11.50.000 11.50.000 11.50.000 11.50.000 11.74.000 X/LB X/LB Ē X/LB Ŧ

57.0

2.9115

-.0258 -.0522

-.0721

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.9962

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.3807

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.5997 .8210

.6167 .7790

.8837 .7290

1.4851

. 5520

X

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-. 3521

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1.0460

1.0180

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520

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		·		,			RN/L = 2.9115		.3780 .4970 .5740		/ P30		-,1522 -,0495 -,1709 -,0532 -,1884 -,0671	9010 - 0106		18470957	1702100%						
(XEBB13)							440.41		.3010			0235	1892 2731	\$		1870	2091						
							•		3510		•	0022	- 2547 - 2706 - 2682		3548	3634	3305			- 44			
			3				599.93		.20%0		0170	0258	00.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	1934		214:	21.15	,	1.0460	1209+ 82063			
8 (AMES 11-073-1) -140A/B/C/R ORB FUSELAGE			1.0180				iñ •		0771						.5320		_		S 0.1	2021	~		
AMES 11-073-1 3A/B/C/R ORB F			3666.	, 0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			o		1650		0186	.500.	-070- -1070- -1502-	.3627	.8193			11/6.	9990			2840	•
L AMES		ا ا	.9600	0555 1000 1436	2207	0288 2912	1.3750	4 F		3							.9723		.9600		1055 1367 1803	3199	
		VARIABLE	.9210	0525 0554 1199	1507		MACH	T VAPIAE	0000		;	9000	9+1+0 9565 7570	.2138	.3027			.3670	.9210	1471	0882 1004 1656	2199	
DATA -073((. 144	DEPENDENT	.8790	2120 2120 120 120	.0041		750 T	- 2	DEPENDEN	.0700	.0985	.070.	1530	2255	308+			3743	.8790		0013 0612 1593	6751	.081
D PRESSU	-	0	.8210	. 0708 . 0978 . 1849	1988	.3526	8643			03+60	1508	1523		3888	.+857	•		F12.	.8210	0345 0199	.0903 12851	.0530 .1985	.2867
TABULATED PRESSURE AMES 11:	(S) 4	ų.	0611.		.2650 284	200 000 000 000 000 000 000 000 000 000	.3168		¥	.0230		325	. 4853 . 4853 . 4853	5682	.5878			6145	35LT.	1700. Apre	- 0356 0356 1699	12.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	3025
	BETA	FUSELAG	.7290	0968 -	.0055	. 0223	7+11	33 F	R FUSELA	0800.	1.301			/819.				.8622	.7290	.0173	1199	.0076	.0237
3 6	028	11 ORBITER FUSELAGE	.6520	. 00%0	.0122	0038	¥.0	033	130RB1TE	. 0000	9							1.4699	.6520	0201		.0148	0097
DATE 10 FEB 76	ALPHA (2) =	SECT: ON 1 1	x/L8	·	110.000			ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB			40.000 55.000 70.000	90.000	140.000	151.000	165.000 169.000	174.000	X/LB	PH1 000.	40.000 70.000 90.000	110.050	150.000

BETA (3) =

ALPHA (2) = -.033

DATE 10 FEB 76

(XE8813)

			2.9157		5740		0143	.0280								
			ผ		. 4970		. 0205	. 0097	0000	0881	1476	1138	0954	2810		
			38/1													
			5		.3780		S	.0±10	Č	0939		1881	1869	2021		
			- 441.12		3010		.0376	. 0259	- 0517	- 1096	3173	3280	2775	2400		
			•		550		.0360	1460.	1787	-1314	181	3923	3577	3820		
	1.0460		600.12		.2040		2020	.0202	- v	1961	1728 1927	1288	2454	3470	1.0460	1574 1510
	1.0180		- 60		.1770								2.88		1.0180	- 1460 - 1678
	ე666		a		. 1660	Ş	- C. C. C. C. C. C. C. C. C. C. C. C. C.	1087	200	2636	78±0.	.9375	.9883	.9096	0666.	
0	.9600	3221	1.3941	BLE CP	.1580									. 9493	.9600	- 1613 - 1538 - 0585 - 1377 - 1739 - 2192 - 0862 - 0262
C. PENDENT VARIABLE CD	9.80	. 585	MACH	DEPENDENT VARIABLE	.1120		.0731	1283	0602	23.5	 	#E53.		.2697	.9210	
L. PENDE	.8790	. 2485	-3.90+ F	DEPENDE	.0700	1603	1763	.2533	3 E	3304	. 3563	.2744		.2526	.8790	- 0336 - 0535 - 0520 - 0620 - 1020 - 0124 - 0522 - 0548
	.8210	.3367	3		.0460	200	2887	3482	. # .	8634	0.60	.442B		.4138	.8210	. 2820 . 1126 . 1126 . 1126 . 1543 . 2313
AGE AGE	.7790	.3033	BETA (1)	39	. 0230	3 2 3	500	.6216	3.00	.6382	ceco.	.5668	•	.4819	.7790	. 0521 . 0588 1019 1986 1986 2269 2351 2351
TR FUSEL	.7290	.0181		R FUSEL	. 0080	6026				.8720				.7633	.7290	
1.) ORBITE	.6520	0179	3.851	1) ORB) TE	.0000	1.4689								1.4589	.F520	.0566 0512 0174 0174 0506 0419
SECTION (1) ORBITER FUSELAGE	X/LB	PHI 165.000 180.000	ALPHA (3)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 000	20.000	70.000	70.000	90.000	140.000	150.000	167.000 165.000 169.000	180.003	X/LB	PHI -000 -

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	13)	FW/L		.3780	8450.	0480		- 1992	1738	1878	1913					38 /		3780	.0539	.0387	1515 1923 1723
	(XEBB13)	441.12		3010	.053t	.0399	1035		- 29 E	2531	2129					. 41.18		3010	.0401	.0238	1581 2266 4249
				52.	.0258	. 0694	1780		3971	3626	3944					۵.		50.	.0214	.0626	2391 2391 2734
		<u>ज</u>		.2040	.0339	.0.37 19.0.	1549	. 0825 8100	8064	2433	3852	1.0460		1493 1680		600.12		.2040	.0269	- 60	.0039 .0339 0037
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11-073-1	'R ORB FL	σ		.1660	29.50	.0760	1187.	. 4759 9374.	.8400		9446. 9363	0666			2803	0		. 1660	.0420	.0309	.0657 .0657 .1487 .3740
- 0A148 (AMES 11-073-1	-140A/B/C/R ORB	1.39+1	LE CP	.1580							.9422	.9600		1581 1944 1086 1576 1944	2507 1240 0780	1.3941	ABLE CP	.1580			
			T VARIABLE	.1120		. 0899	1,574	2460	.2672		000	9		0793 0447 1108 1250	1827 0833 0016 .0749	- HACH	VARI	.1120			.0718 .0730 .0697 .1732
ESSURE DATA	ES 11-073(0A148)	. 141 MACH	DEPENDENT	.0700	2501	.1683	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	. 3636 3636	.2490		956		3	0305 0239 0528 1252	0365 .0340 .0832	.219 M	DEPENDENT	.0700	. 1863	2.05 1.57	1723 1723 1602 1998
en PRESS	AMES	•	_	.0460	ny de	2710 2710 2710	3380	. 4024 . 4054	.4319		i i			.0368 .0402 0357 .0330	1325 1325 1325 1345	1054.		.0460	2563	7.50	2493 25377 2607 73377
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			FUSELAGE	.0000		3. 3.	1	.7330			9	F 10		.0588 1813 1220	0461	<u>ኞ</u> 80	. 35 32	.0090	5		9192
ģ	?	3.949	1) ORBITER	0000		\$17\$.I				•		1.4714	. פסכם	.0300 .0586 0641	0264 0182 0220	0257 3.862	100 CE	. 0000	1000	3	
86 and 10 and	מאוני וס יכי	ALPHA (3)	SECTION (X/LB	Œ	20.000	55.000 75.000 70.000	90.000	140.000	151.000 162.000	169.000 174.000	180.000	X/LB	PHI .000 .00.506 90.000 .000	110.000 120.000 135.000 150.000	180.000 A PM (3)	. 5	X/LB	£	. 20.00 . 000 . 00	25.060 76.060 70.060

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		9189	4077	4062	3834			<u> </u>		.8310	. 1242	1064 1153 1207	4366 4024
		.2040	1642 2682	2581	3657	1.0460	1620 1779	600.00		.2040	. 0803 . 0893 . 1359	. 2027 . 2232 . 1777 . 1044	1184
		.1770	.5223	.6095		1.0180	 5 6. 3 8	• 60		.1770			.7196 .7196
		. 1660	.7907	.9013	.9325	.9990	3364 3386	ø		. 1680	. 1100 . 1701 . 1901	. 1925 . 1963 . 5149	. 8863 . 9152
	BLE CP	.1580			0888.	.9600	1620 1454 1773 2225 3391 1802 1450	1.3932	BLE CP	.1580			9108
	DEPENDENT VARIABLE CP	.1120	.2222		.2681	.9210	0768 0501 1386 1417 2536 25485 1441	MACH	DEPENDENT VARIABLE	.1120	. 1586 .2103 .2394	.2382 .2171 .2271	. 2077
4.219	DEPENDE	.0700	.2180		2749	.8790	0311 0328 0701 2428 0957 0691	-3.904 M	DEPENDE	.0700	.2606 .2675 .3356	.3185 .3185 .2646	5113
3) = 4		.0460	.4067		+304	.8210	.0331 .0531 .0530 .0530 .0353 .0081 .2187 .2097	E- = (. 3460	.3715 .3951 .4496 .4790	.4352 .4352 .3854	. 3332
BETA (3	AGE	.0230	1064.		.4958	.7790	.0837 1957 082 0946 	BETA (1	30	. 0230	.5965 .7058 .7058	.6917 .6609 .5750	. 4562
3.862 B	ER FUSEL	. 0090			.7265	.7290	1884 1228 253 0170	7.881 6	CR FUSEL	.0080	1.0398	.8234	
	1108911	. 0000			1.4586	.6520		- 7.1	C 1) ORBITER FUSELAGE	. 0000	1.4386		
ALPHA (3)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 140.000 150.000 151.000	162.000 165.000 169.000	180.000	X/LB	PHI -000 40.000 70.000 90.000 110.000 135.000 150.000 150.000 150.000 150.000 150.000 150.000	ALPHA : +1	SECTION (X/LB	P#1 .000 .00.000 .00.000 .50.000	70.600 90.000 120.000	150.000 151.000 162.000 165.000 167.000

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				AME!	\$ 11-073	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE	140A/B/C	./R ORB F	USELAGE			(XE8813)	13)	
ALPHA (4) .		7.981	BETA (1) *		-3.95t									
SECTION (1) ORBITER FUSELAGE	1108811	TER FUSEL	AGE		DEPENDE:	DEPENDENT VARIABLE CP	ALE CP							•
X/LB	.0000	.0080	.6230	.0460	.0070	.1120	.1580	.1660	6F1.	. 2040	ž.	.3010	.3780	.
FH1	1.4386	.6242		.3187	. 1852	. 1868		.898·		3833	4168	2731	2172	
хлв	.6520		.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460				
PH1	9760.	.1130		7460.	.0366 8410	0161	0991		0962 1064	1097				
40.000 70.000 90.000	1336 1336 0877	2427 1944		- 2454 - 0353 - 0235	1321	1339 1943 2635	0874 2135 2792	9						
135.000 150.000 150.000	1856 0886 087	1711 0257	.0731 .0614 .0629 .0529	.0626 .1175 .1115	0609 0498 .0309 .2356	1984 1370 0035	2436 1252 0943 2792	860. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

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	2.9150		Calculation		95.0	.0755									
	•			2	.0787	.062	555	1737	0750	0540	ě	195			
	FW/L			.3780	1024	9460.	1.0991	.3314	1868	2022		2110			
	£ .58				. O727	.1020		. 3587	3428	2939	1	ici.			
	•			<u>8</u>	.0735	.0983		1881	4367	3997		- 43Gt			
	9			.2040	.0931	.0795 .0611	175		-	2833		1714	1.0460	1135	
	800,000			0771.						5612		•	1.0180	0933	
7. A. A. A. A. A. A. A. A. A. A. A. A. A.	c	5		. 1660	1129	1089	. 12.19	.1328	9167.		.8787	1118	0666	•	
- 2436 - - 1252 - 0943 - 2792		1.5856	E CP	. 1580							719	}	.9600	0919 0863	
1984 1370 0035 1299			VARIABL	.1120		. 1642 1759	25.0	1332	.1942			.1947	.9210	0111	
0609 0498 0309 2356		.128 MACH	DEPENDENT VARIABLE	.0700	Carc	9.00 9.00 9.00 9.00	S. S. S.	2338	1810			. 1867	.8790	0358	
	.3523	- :	•	.0460		יייי טארטי טארטי	i i con	3305	33.55			3243	.8210	96. 10. 10.	
	. 1261	BETA (2)	w	. 0230		3558.	9.10. 5.10. 5.10.	5616	0.54.			.3751	.138	.1547	
1711	0250		FUSELAG	.0080	į	1.0400		3 ∙89 ∙				.6045	.7290	.1183	
- 1856 - - 0886 - - 16674		7.933) ORBITER	.0000								二 3. 二	.6520	.1155 1155	
110.000 120.000 135.000		ALPHA (4) =	SECTION (1) ORBITER FUSELAGE	X/LB			40.000 55.000	70.000 90.000	140.000	151.000	165.000 169.000		X/LB	PHI .000 40.000	

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					186		3780	.1051	588 .	1450 1880 2233	1823	2119	2119			
					£ 1.58		30108.	.0710	.0581	1339 1773 4009	3307	2639	2719			
					•		<u>8</u>	.075t	.0597	1819 2108 25±1	4412	4321	4135			
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	LE CP	.9600	1505 2068 2831	2793 1755 1215 2875	1.3932	LE CP	.1580						¥608.	.9600	0947 1933 1996 2735	3634 2129 1861
	DEPENDENT VARIABLE	.9210	1629 2142 3015	2137 1306 0613	MACH	DEPENDENT VARIABLE	.1120		. 1398	. 1368 . 1368	. 1569		.1855	.9210	0089 .0009 1730 2655	2746 1739 1277
. 128	DEPENDEN	.8790	1517 1942 2288	0870 0249 .0320 .2304	4.214 M	DEPENDEN	.0700	.2756	. 2318 2410	.2090 .1701 .1543	.1427		.1962	.8790	. 3423 . 0387 1426 2174	1289 0782 0464
Ħ		.8210	1019 0200 0491	. 1371)		.0460	.3754	3491	283. 245. 2683. 2833.	.3213		inte.	.8210	. 1067 . 1257 0967 0322	0618 .2273 .2945
BETA (2)	ig GE	.7790	2705 2278 0348	.0902 .0928 .0827 .0692	BETA (3)	GE	.0230	.5467	5286	.5008 .4769 .7174	.3945		1772.	.7790	.1345 .1636 2617 1460	.0724 .1419 .1586
	R FUSELA	.7290	2507	0878	}	R FUSELA	.0080	1.0290	,	.5396			.5863	.7290	.1255 2376 1705	0201
= 7.933	1) ORBITER FUSELAGE	.6520	1374	0709	1.60.	(1) ORBITER FUSELAGE	.0000	1.4322					1.4322	.6520	.0841 .1028 1237 0636	-,0366
ALPHA (4)	SECTION (X/LB		110.000 120.000 135.000 165.000	2	SECTION C	אירם	PH1	20.000	55.630 76.663 90.693	150.003	162.000 165.000	169.009 174.000 180.000	877X	7#1 46.000 70.000 95.000	

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					Q.		S.C.	.1430	.1728	0747	1039	4724	4371		4385						
			1.0460		599.82		.2040	. 1678	. 1535	1340	1819	0813	3328		4100	1.0460	0719				
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OA148) -		T VARIAB	.9210	0632	MACH .	T VARIABLE	.1120		2539	1	1956 1578	. 1283			1911.	.9210	.1095	0571 1916 2806	2266	1403	
11-0730	4.214	DEPENDENT VARIABLE	.8790	.1792	-3.887 MA	DEPENDENT	.0700	3548	3505	.4036	. 2970 . 1782	. 1410			.1147	.8790	1291	2031 2045 2185	1308	0532	
AMES	*	_	.8210	.3470	-3.		09±0°	4867	5109	5149	.4064 .3070	.2205			.2291	.8210	. 1946 . 1958	2830 0902 .0031	.0616	. 2396	.4399
	BETA (3)	3	.7790	7701.	BETA (1)	ų	.0230	6755	1917.	7.58	.6181 .6181 .6905	.3467			.2543	.7790		3062 2656	0361	1591	0679
		R FUSELA	.7290	0113		R FUSELA	.0000	1512	?		. 7686				.4819	.7290	.1970	3381	i9ts	1752	0635
	7.93	11 ORBITER FUSELAGE	.6520	0357 0491	* i1.884	1.10PB1TE	.0000	707) PC						1.3877	.6520	-1762 04-55	1547	1920	1027	6621
	ALPHA (4)	SECTION (X/LB	PH1 165.030 180.000	ALPHA (5)	SECTION 1 1109BITER FUSELAGE	X/LB	PHI	20.000	55.000	70.000 90.000	150.000	151.000	169.000	174.000	x/LB	000. 000.	70.000 90.000 105.000	110.003	150.000	183.000

86		2.9185		3740	.1*99	. 1508								2.9165			0441	.1187		
PAGE		•		970	. 1600	<u>.</u>		0911	0569	0472				•			1452	. 1003	2360 738 1453	
	13)	S FBV/L		.3780	. 1548	.1600	0897 1291	1965	- 188	2001				S RRV.		.5780	1497	.1262	1497 1838 3792	
	(XE8813)	• 440.65		3010	.1305	. 1363	0716 0961 3498	3914	3161	2732				*******		.3010	.1190	.0761	1231 1494 3833	
		۵.		55.	. 1385	. 1273	1151	+99h	4272	4578				<u>.</u>	!	. 2310	.1317	.0614	1612 1929 2427	
		599.92		.2040	.1633	0101	.0683 .1672	.2047	3150	4370	1.0%60	1306		36.98		.×05.	- 100 - 100 - 100	50.5	0196 0993 0397	
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_	-140A'B/C/R	1.35+6	LE C3	. 1596						.737	9600	02:9 393 3397	1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	1.39.6	ZE C.	. 1590				
- 04148		#ACH .	IT VARIABLE	.1120	. i	1. V.	55. 15. 19. 19. 19. 19.	.1275		. 1266	.9210	. 2453 2453 2707 3559	2439 1597 1144 0349	MACH .		. 1120	5	1836	.0902 .0902	
SURE DATA	AMES 11-073(0A148)	.152	DEPENDENT	.3700	.3768	100 m	85.95. 85.95.	. 1206		.1168	.8790	. 2553 - 2553 - 2584 - 3062	1344 0878 0212 2240	.229 M	DEPENDENT	. 9700	3672	2989	1594 1357 1086 1086	
ED PRESSURE	SHE!			.0460	4929	. 4865 . 4843	3. W. W. W. W. W. W. W. W. W. W. W. W. W.	.2395		.2374	.8210	1958 2055 2093 -1125	0460 .0635 .3196	*		.0460	. 4826 626		.2355 .2135 .1992	
TABLLATED		BETA (2)	301	.2230	.6769	. 6989 . 6989	6.55.55.55.55.55.55.55.55.55.55.55.55.55	3250		.2655	.7790	. 2985 - 1985 - 1985 - 1985	.0230 .0469 .1065 .0604	BETA (3)	3	. 0230	.6655	. 50 00	15.28 15.28 15.88	
			R FUSELAGE	.080	1.1530		.630			**9*.	.7290	.2013 3569 2386	1204 0885 0314		110RBITER FUSELAGE	.0080	1.1360		.4876	
8		11.891	1) ORBITER	.0000	1.39+4					1.39*	.6520	. 1702 . 2043 2289 1413	0982 0695 0453 0383	• 11.987	1108811	0000	1.3814			
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	FH.i .000	20.00 20.00 20.00	95.900 90.000 90.000	140.000	151.066 162.000 165.000	174 - 000 180 - 000	X/LB	PM1 	135.000 135.000 155.000 165.000	ALPHA (5)	SECTION (X/LB	1 1 .	\$0.000 \$0.000	95.080 96.000 96.000	

86			Calle											2.9216	7.7td		.2296	.2535		٠.			
PAGE			600		0548	0565	į	17.0						•	600		7155	.2269	1115	4213	3209	1229	
į	13)			.3780	1786	2014		2116						9 RN/L	8	.5/6	.2143	87.4%.	0166	5179	3133	2500	
	(XEBB13)			3010	3577	2856	,	2960						- 441.59		308.	.1894	.2191	0228	3033	4845	4050	
				8. 28.	4710	4505		4330						.		S.	.2109	.2285	0721	1284	5142	4684	
				2040	2847	-, 3269		4262	1.0460	0750				600.21		9. 5.	.2383	1755. 2715.	7884 1.059 2001	17271.	•	3806	
_	USELAGE			0771.	.4807	.5574			1.0180	- 1579						.170						.6403	
- 0A148 (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE			. 1660	.6610		.767.	.8315	.9990		į	5084		ø		. 1660	.2666	2834 3077	.1809	. 2973	.7876	!	7997.
(AMES	140A/B/C		LE CP	.1580			7005	300.	.9600	0333	2659 3910	4251	2183	1.3935	BLE CP	.1580							5847
			IT VARIABLE	.1120	.0977			.1167	.9210	.0742 0270	2970 3022 4140	3097	1456	- HOW	NT VARIABLE	.1120			.233		. 0582		
URE DATA	11-073(04148)	4.229	DEPENDENT	.0700	. 9828	-		1248	.8790	1250	- 3056 - 3056 - 4005	1723	2.25 2.25 2.25 2.25	₇ 3.863 M	DEPENDENT	.0700	4701	4520 5056	. 4.106 3208	.2689	.0599		
TABULATED PRESSURE DATA	AMES			.0460	8625.	. 		.2552	.8210	1191.	2162 1437	- 1454 2051	2789			.0460	8088	.6201	5308	2689 4019	.1114		
TABULAT		BETA (3)	ĘĘ.	. 0230	2901			.2613	.7790	9525. 90.F	. 3791 - 3559 - 6559	.0128	6120 0473 0473	BETA (1	AGE	. 0230	CAOL	8360	8. 8. 6. 40. 8. 6. 40.	.5615 4022	00×2·		
			1. ORBITER FUSELAGE	.0080				.4377	.7290	.2027	3361	-, 0999	0444	15.888 B	110RBITER FUSELAGE	.0080	7	. c. 5		.7013			
8		= 11.887	1) CRB1TE	0000.				1.3814	.6520	.1556	2607 2607 1211	0761	9475 9475	000/-		.0000		1.3132					
DATE 10 FEB 76		ALPHA (5)	SECTION (x/LB	PH1 140.000 150.000	151.000	169.000	174.000	X/LB	PH1	40.090 70.000 90.000	110.000	135.000 150.000 165.000	180.000 ALPHA (6)	SECTION (X/LB	æ	20.000	55.000	90.000	140.000	151.000	165.039 163.009 174.000

DATE 10 FEB 76	6		TABULATED		SURE DATA	041£	PRESSURE DATA - DAINB (AMES 11-073-1	11-073-						PAGE	200
				AME	AMES 11-07310A148)		-140A/B/C/R ORB	S/R ORB F	FUSELAGE			(XEB	(XE8813)		
ALPHA (6)		15.888 8	BETA (1)		-3.863										
SECTION (1) ORBITER	TER FUSELAGE	AGE	•	DEPENDEN	DEPENDENT VARIABLE	BLE CP								
X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	. 2040	2510	.3010	3780	WB70	576
PH1 180.000	1.3152	.3133	1494	. 1403	.0483	. 0598		.7233		4438	4629	308B	1971	0758	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
741 70.000 70.000 90.000	. 2582 - 2582 - 141	.2970 4455 3138	. 3769 . 3769 . 3769 . 3769	.3018 .3121 4558 1986	. 2152 . 2152 . 4458 . 2710 . 2845	.1527 .1570 3869 3037	. 0228 . 0229 - 1680 - 2407		0039 0681	0279					
120.000 120.000 120.000 185.000	2287 2859 1253 0853	1984 3221 1038	1133 0434 1993 2106	.0312 .0312 .1570	1962 2052 3775 .1594	2796 1845 2768 0599	2811 2178 3054	- 3396 - 3396				,			
ALPHA (E)		15.865 BE	BETA (2)		.152 MA	MACH	1.3935	ø	900	600.21	_	# ## .38	TAN/L	•	2.8218
SECTION (1) ORBITER	ER FUSELAGE	MGE		DEPENDENT	IT VARIABLE	ALE CP		•						
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	. 1580	.1680	170	0408.	80	.3010	3786	0784.	57.C
14. 000. 000. 000.	1.3240	1.2496	108	2007 7007	1774.	ğ		5173		9398	.212+	.1907	.2171	525	.228
			7665	.5640	4399	3169		10.00 10.00		100	. 1585	.1708	.2052	7102.	1633.
60.000 00.000 00.000 00.000		5645	88 K	1727. 1726. 1700	223 1865 1865	12.00 12.00 12.00 12.00 13.00 10.00		. 1006 . 0914 . 3182		9.55 9.55 9.59 9.59 9.59 9.59	1157	0800 0833 3363	0850 1198 5260	1978 1983 3194	
150.000			.2255	. 1486	. 0539	.0642		.6433	574G.	- 1684	4965	4461	2+05	1057	
25.55 25.65 25 25 25 25 25 25 25 25 25 25 25 25 25							į	.7301	.598	- 3495i	4526	3339	1872	0671	
180.000	1.3240	.287.	11911	. 1652	.0510	.0665	Š	.7476		4592	4808	2853	1767	0565	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 . 000 40. 000	.2643 .2861		.3537	3126	2. 2.2.5.	. 1580 1588	.0203 .0234	·	.0012 0568	0214					

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

.4970 -.2911 -.2493 -.2035 -.0769 .2240 -.0523 -.0703 1721 Ž 3780 -.1767 .2164 .1757 -. 1530 -. 1741 -. 4866 -. 1845 -. 199F -.2918 -. 1340 -. 1340 -. 3674 .3010 .1931 -.3840 -. 30±1 .1181 -.4572 . 0.00 .2073 .0650 -.1437 -.4482 -.4896 -.3521 -.4436 .2040 -.0213 .9990 1.0180 1.0460 1.0460 600.21 .1770 .0008 .4565 1.0180 9886 .2596 .2313 .1606 .0139 .0346 .2906 . 166L 5932 .6861 .7236 -.3297 -.2351 -.2670 -.3438 .0169 .0183 -.2347 -.3398 -.4813 .9600 1.3935 5733 . 1580 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.4339 -.3618 -.4427 .9210 -.2537 -.1804 -.2307 -.0793 .1120 2963 2387 0147 0646 0280 0301 0476 .0523 .9210 1504 3722 3773 5283 MACH -.4988 -.3714 -.4052 -.1904 -.1115 -.2736 .0700 .8790 .4676 .4065 .3631 .1970 .1404 .1101 .8790 .0407 1690 4.263 . 52 -.4620 -.2573 -.0816 .8210 ..0200 ..0062 .2381 .0460 .2929 .3056 -.4320 -.2718 -. 1952 .0506 .2326 5939 5510 1633 2243 1852 1657 1672 .8210 .4577 1435 BETA (2) .0230 .130 7894 6529 4942 4074 3841 3833 -.0410 -.1781 -.1139 2045 .3393 .3632 -.5032 -.+039 . 1558 .7790 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.4866 -.3314 -. 1616 .7290 -.1736 -.0564 .0800 -.4546 1.2379 .4315 2556 .7290 .3083 15.903 15.865 -.1207 -.3487 -.2103 -. 1533 .6520 1.3144 .0000 .25625 .2561 .4070 .2226 .6520 LPHA (6) ALPHA (6) PH1
70.000
90.000
1105.000
1210.000
135.000
1565.000 26.000 55.000 55.000 120.000 1151.000 1151.000 1151.000 1151.000 1151.000 1151.000 1151.000 1151.000 40.000 70.000 90.000 105.000 110.000 120.000 135.000 X/LB X/LB

.2858 .2575 .1343

-.0897

-.0797

-.1366

.1003

57.0

4.263 ALPHA (6) = 15,903 BETA (3) =

.9990 1.0180 1.0460 . 6096. 0156. 0679. 0158. DEPENDENT VARIABLE CP .6520 .7290 .7790 SECTION (1) ORBITER FUSELAGE X/LB

.2790 -.0783 -.3495 .3986 -.0594 -.0888 -.0797 -.1065 -.1064 PH1 165.000 180.000

(XEBB13)

PAGE 203	(XEBB14) (05 AUG 75)	PARAMETRIC DATA	RUDDER = .000 SPDBRK = 35.000 BOFLAP = .000 L-ELVN = .000 R-ELVN = .000 MACH = 1.250	599.70 P = 552.51 RN/L = 3.0159		0472. 0784. 0378. 0308. 0185. 0405.	010502100538071110120546	-,2028 -,2016 -,1558 -,0963 -,1264 -,0793	.0130277513210792 .0202 .0132245524100960 .0145 .0132245524100960	3948 2334 1300	26912937230114510871	-,37673725177716750958	1.0460	-, 3218 -, 2747	
-	FUSELAGE			8		.1770					. 7087.		1.0180	3341	
- 0A148 (AMES 11-073-1)	-140A/B/C/R ORB FUSELAGE			ø		. 1660	0130	1072	208 208 208 208 208 208 208 208 208 208	.9236	.9790	.9089	.9990		2036
3 (AMES	-140A/B/(1.2452	AE CP	. 1580					 	1.0502	.9600	3168 3721 .0265 .0076	0527 .0301 .0545 3037
			922	MACH :	NT VARIABLE	.11.30	!	0615	. 1207 . 2658 . 325.	.607 ⁴		.6045	.9210	2509 1913 .0545 .0190	0338 .0633 .1455 .2336
SURE DAT	AMES 11-073(0A148)		5853 IN. 5000 IN. 5000 IN.	-3.884 M	DEPFNDENT	.0700	2600.	.0363	9015. 1907.	.5368		.5278	.8790	1966 2060 .1460 .1242	.0619 .0619 .1547
TABULATED PRESSURE DATA	AME		. 1076.69,3 .0000 . 375.0000			.0460	6490.	.1096	. 40504.	.6471		.6116	.8210	1195 1224 .3105 .2767	.3036 .4857 .4748 .5339
TABULA		Ϋ́	XPRRP YMRP ZMRP	BETA (1)	AGE	.0230	. 1882	.4091 14091	5633 6463 6487	3.07.		.7340	.7790	0591 0134 0134 .3029	.4250 .4748 .4671 .4580
		REFERENCE DATA	SQ.FT. IN. IN.		1) ORBITER FUSELAGE	.0090	.6298		5716.			1.0070	.7290	0281 .0012	.0702 .0988 .1212
8 75 57		REFE	2690.0000 474.8000 536.0680	-4.010		.0000	1.4024					1.4024	.6520	.0003 6712 .0803 .0985	.0587 .0313 .0313 .0082
DATE 10 FEB			SREF = 24 LREF = 1 BREF = 5	ALPHA (1)	SECTION (X/LB	PH1 .000	20.000 40.000	25.000 70.000 70.000	170.000 140.000 150.000	151.000 162.000 165.000 169.000	174.600 180.000	X/LB	PH1 - 000 - 000 - 000 90.000 105.000	110.000 120.000 135.000 150.000 165.000

*62		3.0159		.57°	0563								3.0159	1	oke.	0707	
PAGE		•		.4970	**60	9023 0088 0400	0624	0638	0679						€¥.	- 1029	0205 0175 0545
	(*!	FRYL		.3780	0771	1191 1210 1903	1642	1711	1659				TARY.		.3780	0698	1363 1257 2628
	(XEBB]#)	552.51		.3010	0552	1869 2057 3174 4966	2506	1744	1514				- 552.51		.3010	0542	- 3701 - 3701 - 3546
		•		8	0083	1344 3411 3242 2750	3669	- 3480	4094				<u> </u>		0.05.	0151	3870 3836 3450
		599.70	•	. 2040	0021	. 0240 . 0240 . 0082 . 0864	1613	2747	3449	1.0460	-, 3334 -, 2625		599.70		.2040	₹.0108 0246	0508 0508 0487 1843 1572
~	FUSELAGE	* 599		.1770				.5610 .6392		1.0180	-, 3253 -, 3233		986		 64:		
11-073-1		ø		. 1660	0119	0605 .0582 .1293 .1615	.8506	57+9.	.9376	0666.	8	- 10 to 10 t	O		.1660	0349	- 050. - 020. - 0690. - 0810
(AMES	-140A/B/C/R ORB	1.2452	LE CP	1580					1.0390	9600	3171 3519 0263 0416	1606 0565 0343 3344	1.2452	LE CP	.1580		
- 0A148		MACH .	T VARIABLE	.1120	0307	0269 .0679 .1805 .2265	.5670		.6110	.9210	2521 2040 .0050 0348 0833	1267 0250 .0378 .1137	MACH .	IT VARIABLE	.1120	0436	0326 .0155 .0866 .1249 .3391
URE DATA	AMES 11-073(0A148)	.148 MA	DEPENDENT	.0700	.0358	. 1581 . 1581 . 2286 . 2704	. 4961.		.5317	.8790	1975 2004 .1021 .0470 0217	0557 .0107 .1147 .3465	.237 M	DEPENCENT	. 9700	.0323	. 0129 . 0816 . 1257 . 1808 . 1809
ED PRESSURE	AMES	•		.0460	.0578	. 9935 . 2722 . 3709 . 3709	.6120		.6210	.8210	1188 1149 2615 2615	.4503 .4719 .5985	<i>3</i>		.0460	.0479	.0574 .1355 .1888 .2557
TABULATED		BETA (2)	띯	.0230	.1984	.3563 .4762 .5572 .6224	. 7402.		7418	.7790	0484 0657 .1174 .2225 .3245	.4502 .4502 .4752 .4719	BETA (3)	IGE	.0230	. 1960 . 1977	.2980 .3886 .4534 .5178
			11 ORBITER FUSELAGE	.0080	.6308	.7793			₹ 6.	.7290	0226 0095 0392	.1036		R FUSELAGE	.0080	·617	.6351
76		-3.944	1 JORBI TE	.0000	1.4060				1.4060	.6520	.0013 0373 .0662 .0792	.0394 .0326 .0326	€00°+- =	1) ORBITER	.0000	1.39+7	
DATE 10 FEB 76		ALPHA (1)	SECTION (X/LB		40.000 75.000 70.000	162.000	151.000 162.000 165.000 169.000	174.000 180.000	X/LB	PHI - 000 70.000 90.000	120.000 135.000 155.000 165.000	ALPHA (1)	SECTION (x/LB	PH1 .000 20.000	40.000 55.000 76.000 96.000

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202				.57*0							3.0212		5740	862	0395			
PAGE		£		.¥970	0906	0986	1003						9764.	0630	0784	0384 0381 0896	0936	0867
	14)			.3780	255	1901	1664				FBN/L		.3780	02%0	0221	0814 +.1280 1642	1725	1871
	(XE8814)	•		.3010	1972	1664	1776				552.29		.3010	0082	0689	1006 1954 4113	3103	3039
				.2510	3967	4170	3516				• 0.		.2510	.0269	0739	2512 2327 1823	4556	4028
				.2040	3221	•.2809	3865	1.0460	3205 2745		.31		.2040	0180	. 0687	.0316 .0715 .0839	. 2296 2296	3250
_	FUSELAGE			.1770		.5648		1.0180	3267 3144		= 601.31		.1770				F.063	.6748
11-073-1	88			. 1660	.7666	.9021	.9257	.9990		2987 2987	ø		. 1660	.0155	7610.	. 20.25 20.25 20.25 20.25 20.25	.8970	.9397
- 0A148 (AMES 11-073-1	-140A/B/C/R		LE CP	.1580			9876	.9600	3196 3298 0771 0895	2676 1550 1267 3597	1.2472	LE CP	.1580					1.0010
			T VARIABLE	.1120	.5057		.6005	.9210	2514 2055 0436 0936	2401 1161 0604 .0310	MACH	T VARIABLE	.1120	į	.0500	.3127 .3174 .4576	.5131	
PRESSURE DATA	AMES 11-073(0A148)	4.237	DEPENDENT	.0700	.4421		.5217	.8790	2022 2046 0814 0623	1551 0469 . 0620 . 2826	3.866 MA	DEPENDENT	.0700	0806	1392	3324 3334 3938	.3973	
_	AMES			.0460	.5649		.6166	.8210	1203 1080 -2919 -2707	.0440 .4718 .4454 .5396	-3.		.0460	.1637		.4316 .4316 .4751 .5371	.5257	
TABULATED	-	BETA (3)	J.	. 0230	.6835		.7395	.7790	0589 0546 1433 .2224 .3050	3191 .4069 .4352 .4393	BETA (1)	J.	.0230	.3050		.6803 .7265	.6751	
			1) ORBITER FUSELAGE	.0080			.e.	.7290	0210 0148 0459	. 1329	.205 86	DORBITER FUSELAGE	.0080	7557		. 8929		
57.		= -4.009	1.0RB1TE	.0000			1.3947	.6520	0144 0118 .0565 .0646	.0551 .0054 .0054 .5500	ı.	1) ORBI TE	. 0000	1.4125				
DATE 10 FEB 76		ALPHA (1)	SECTION (X/LB	PH1 140.000 150.000	162.000 165.000 169.000	174.000 180.000	x/re	PH. 000 40.000 70.000 90.000	1.0.100 135.000 150.000 155.000 180.000	ALPHA (2)	SECTION (X/LB	PH1 000.	40.000 40.000	25.030 70.060 90.000 120.000	150.000 150.000	16.2.000 163.000 174.000

. 20e				0472. 0	•				3.0212		. 5740	0510	10354	01 – 7	•	-	**		
PAGE				.4970	0787				۲.		.4970	0561	0686	0452 0511 0649	0574	0539	0543		
	(XEBB]4)			.3780	2084				ENT.		.3780	0289	0258	1382 1644 1611	1941	2013	2073		
				.3010	2479				• 552.29		.3010	0012	0485	1756 2725 4769	3184	2468	2186		
				.2510	4316				۵.		500 500 500 500 500 500 500 500 500 50	.0364	0383	3048 2987 2720	4640	3965	4708		
				.2040	4245	1.0460	2552 2201		601.31		.2040	.0373	0252		3189	3272	4621	1.0460	•. 2652 •. 2294
-	FUSELAGE			.1770		1.0180	2602		• 600		.1770				Fuff.	9919		1.0180	2692 2692
11-073-				. 1660	8643	.9990		- 2416	σ		. 1860	.02 4150	.0493 .0493	.1670 .2067 .4143	.8181	.9143	.8997	0666.	
0A148 (AMES 11-073-1	-140A/B/C/R ORB		BLE CP	. 1580		.9600	- 2534 - 2888 - 0201 - 0822 - 1652	1331 0489 0159 3071	1.2472	BLE CP	. 1580						5	.9600	2548
ı			DEPENDENT VARIABLE	.1120	.5088	.9210	1768 0983 0327 0559	1293 0384 .0607 .1608	MACH	NT VARIABLE	.1120	į	96.5	1762 2263 3980	6+8+		.5159	.9210	1747
TABULATED PRESSURE DAT	MES 11-073(0A148)	-3.866	DEPENDE	.0700	3874	.8790	1166 1331 .0687 .0449 0251	0513 0251 .0439	.185 M	DEPENDENT	.0700	1107	2	3078 3078 3078	.3658		.3975	.8790	1195
TED PRES	AME	1) # -3		.04:50	926n.	.8210	0472 0424 .1599 .1411	.3580 .3580 .3580			.0460	.1580	1990	3185	.5031		4888	.8210	0438 0352
TABULA		BETA (1	AGE	.0230	.6031	.7790		.3206 .3775 .3721 .3620	BETA (2)	,ce	. 0230	3066	5544. 5544.	. 608 1969 1969 1971	.6331		.6131	.7790	.0176 .0108
		.205	1) ORBITER FUSELAGE	. 0080	.8748	.7290		.0430	.220 BI	1) ORBITER FUSELAGE	. 0080	.7645		.7523			.8592	.7290	. 025¥
8 76 87				.0000		.6520	.0208 0138 .0072	0043			.0000	1.4150					1.4150	.6520	.0153
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	PH1 180.000	X/LB	PHI - 000 - 000 70 . 000 90 . 000	135.000 135.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	PH1 .000	40.00 000 000	90.000 120.000 120.000	150.00	162.000 165.000 169.000	180.000	X/LB	PH1 .000 .40.000

							RN/L = 3.0212		3780 .4970 .57%0	5605160548	3508030372	1870533 1540476 1860537	.e+0620	650698	530783			
	(XE8814)						• 552.29		.3010	.00070256	04260336	22421787 32601754 53261686	27062284	23082265	24312057			
							a .		.2510	. 0255	0143	3503 3596 3587	4374	477B	4168			
		٠		1.0460			601.31		.20±0	-0214 -	0090	. 1273	3108 3789	3387	O144	1.0450	2625 2431	
_	FUSELAGE			1.0180			8		.1770					5340		1.0180	2583 2511	
AMES 11-073-1	88			3686 .		2859 2859	0		. 1660	0022	.0469 .0469	3090	7425	.8643	.8827	.9990		3381
-	-140A/B/C/R		BLE CP	.9600	0797 1275 1954	2290 1331 1055 3120	1.2472	BLE CP	. 1580						. 9365	.9500	2545 2484 1340 .1685	3259
A - 0A148			DEPENDENT VARIABLE	.9210	0797 0959 1662	1891 0982 0189	MACH .	NT VARIABLE	.1120	9		9833 3328	.4266		.4983	.9210	1762 1320 1195 1361	2910
TABULATED PRESSURE DATA	AMES 11-073(0A148)	.185	DEPENDE	.8790	. 0254 - 0990 - 0990	0866 .0013 .0599 .2833	4.264 M	DEPENDENT	.0700	1060	1027	- 1394 - 1394 - 1398	.3191		.3877	.8790	1212 1296 0753 1522	1716
TEO PRES	AME			.8210	. 1629 7911 2711	. 1663 . 3759 . 3925			.0460	1604	1581	. 2536 . 3562 . 3662	3484.		9964.	.8210	0467 0285 1553 1122	.0155
TABULA		BETA (2)	AGE	.79C	1331 .0653 . 1988	.3191 .3328 .3328 .358	BETA (3)	NGE.	.0230	.3036	3769	566 566 566 566 566 566 566 566 566 566	.5817		.6127	.790	.0200 0719 .0703 .1905	.2375
		. 220 Bi	1) ORBITER FUSELAGE	.7290	1190 0498	.0762	.215 BK	OR FUSELAGE	.0080	.7529		.6020			.8375	.7290	. 1229 1229 0592	.0335
87. 25.		•	1) ORBITE	.5520	0095	.0318 .0261 .0212		1) ORBITER	0000	1.4026					1.4026	.6520	.0011 .0280 0195	.0332
DATE 10 FEB		ALPHA (2)	SECTION C	X/LB	PH1 70.000 90.000 105.000	120.000 135.000 150.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	1H9 .000	40.000 60.000	90.02 90.00 120.000	150.000	162.000 165.000	180.000	X/LB	PHI 40.000 70.000 90.000	120.02

4.264

BETA (3) =

(XEBB14)

Patron 1,000 1,0	SECTION (1) ORBITER FUSELAGE	ER FUSEL	AGE		DEPENDEN	DEPENDENT VARIABLE	RE CP								
3221 3798 CEPENDENT VARIABLE CP CP		.7290	.7790	.8210	.8790	.9210	.9600	ე666 .	1.0180	1.0460					
Column C		7560.	.3399	.3798	. 2081	0164	3509								
0230							1.2473	o		0.93					3.0266
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8590 .0535 .0500 .0530 .0500 .0530 .0537 .0308 .0309		.0090	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.6970	37.60
1983 1984 1984 1985				1	į			!		1		i		1	
. 6598 . 6977 . 6782 . 1987 . 6785 . 1987 . 6785 . 1988 . 6978 .	-	.887±	. 4.55 05.34	.2588 	1644	200		.0535		.0500	.0638	.0403	<u>6</u>	0135	0199
. 6596			.6075	3446	2222	. 1325		1097		. 0347	.0278	.0113	. P. 73	0197	0022
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.6509 .5110 .6509 .5110 .6509 .5110 .6509 .5210 .6509 .7710 .6509 .7710 .6509 .7771 .6509 .7771 .6509 .7771 .6509 .7771 .6509 .7501 .7502 .7501 .7502 .7503 .7503 .7503 .7504 .7503 .7504 .7504 .7503 .7504 .7503 .7504 .7503 .7504 .7503 .7504 .7503 .7504 .7503 .7504 .7503 .7504 .7503 .7504 .7505 .7			705	4.7E0	rara			A703		.0240 7770	5075	3026	1961	1933	
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. 1928								3	5009	3710	4618	3599	2091	0806	
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1890 2462 0400 1027 1922 2014 1890 0701 0367 0585 0350 2014 1909 1890 2462 0205 0081 0957 0552 0552 1903 0857 1964 1561 0957 1561 1561 1561 1561 1661 1834 2663 2657 1834 2769 1834 2769 1834 2769 1861 0802 1834 2769 1834 2769 1834 2769 1845 1856 0817 1856 0864 1856 0864 1856 0864 1856 0864 086		.7290	3677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
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	314)	PAY.L		.3780	.0225	.0251	1370 1910 2189	1898	2166	2272						FRAZ		.3780	.0253	.0087	- 1853 2208 1711
	(*1883K)	• 551.82		.3010	.0458	6010.	1557 2128 4664	3704	- 2949	2667						- 551.82		.3010	9630	.0089	2059 2651 5145
		• •		.2510	.0704	.0419	2688 2778 2731	5130	4397	5159						•		.2510	.0606	.0456	3069 3293 3450
		500.93		.2040	.0583	. 05.0 1.05.0 1.05.0	0393	0898 3323	3714	5147	1.0460	2141				600.93		.2040	.0473	0.00	0821 0353 0953
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(AMES 11-073-1	ON BE	o		.1660	.0521	1057	.4319	.7879	. 8 764	.8627	.9990			3598		a		. 1660	98.60 60 60.60 60 60.60 60 60 60 60 60 60 60 60 60 60 60 60 6	0729	. 1345 . 1696 . 3367
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4 - 0A14B		MACH =	DEPENDENT VARIABLE	.1120	0	1081	1624 1798 3163	.+005		.4239	.9210	1066 064 1	1406 1514 2165	2503		MACH	IT VARIABLE	.1120	CUZUS	.0664 7.070	.0724 .0793 .2258
TABULATED PRESSURE DATA	3 11-073(0A14B)	.18t m	DEPENDE	.0700	1779	1983	. 23.55 24.55 28.55 28.55 28.55	.2515		.2867	.8790	0.040.	0604 1039 2063	1150	0232	4.256 MA	DEPENDENT	.0700	.1815	1704	1559
red Pres	AMES	*		.0460	270÷	3021	357 100+	.4206		.4062	.8210	. 0354 0484	.0673 .0673	.1002	4567			.0460	. 2789 1878	10.00 10.00	.2530 .2530 .3230
TABULA		BETA (2)	ig.	. 0230	.4165	i N N	5752 5838 5766	.5383		.5086	.7790	9480.	2470 0579 .1190	2225	7.14. 7.14. 1.75. 2.75.	BETA (3)	띯	.0230	.4125 BC04	1001	.4687 .4839 .4982
		3.903 BE	DORBITER FUSELAGE	.0000	. 8843		8717.			.7325	.7290	1770.	1885	0341	.0330		R FUSELA	. 0080	.8747		.5713
3 76		3.0	1) ORBITE	.0000	1.4040					1.4040	.6520	.0294	0707	0133	. 0079 . 0087 . 0069	= 3.907	1) ORBITER FUSELAGE	0000.	1.3918		
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 .000	40.000 25.000	70.000 90.000 120.000	150.000 150.000 151.300	162.000 165.000 169.000	180.000	X/LB			120.000 120.000	150.000 165.000	ALPHA (3)	SECTION (X/LB	7.41 .000.	40.000 35.000	70.003 90.000 120.000

0.75								3.2236	5740	.0507	.0697				
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PAGE 210					.49T0	0535	0563	0572				FN/L = 3.3236			5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	•	3.1787. - 2806	1155	1983
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·		aak 1			.3010	3247	2771	2857				552.08	,	.3010	3935	0590	0985	4712	1961
· ;					.2510	5005	5152	8.40a		'a		<u>.</u>		.8516	. 1992	1812	1965	5519	E120
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A AMES		-140A/B/C/R		PLE CP	.1580			.8907	.9600	1991 1890 1640 2169	4230 2607 2249 3465	1.2469	ALE CP	. 1580					
8+1v0 - v		11-0/3(04)48)		YT VARIABLE	.1120	.3407		3976	.9210	1042 0699 1692 1805	3347 2114 1493 0556	MACH .	IT VARTABLE	.1120	. 1624	. 2370 . 2387	.2486 .2486	.2316	
SURE DATA			.256	DEPENDENT	.0700	.2082		.2697	.8790	0382 0539 1301 2614	1920 1367 0483	3.870 M	DEPENDENT	.0700	.2530 .2487	3609 3750 3750 3750	.3064 .2579	. 1832	
TED PRESSURE		A A	<i>x</i>		.0460	.3890		<u>+</u>	.8210	.0342 .0508 .0166 .0112	0229 .2313 .2278	p		.0460	3733	. 4833 4549	.4381	.3381	
TABULA			BETA (3)	JGE 10E	. 0230	. 4920		.5044	.7790	.0891 .1047 2052 0175	. 1631 . 2485 . 2644 . 2631	BETA (15	8	.0230	.5386 .5947	.7101 .5809	.5581	.4501	
.:				R FUSELAGE	.0080			.7124	.7290	.0804 2018 1297	0178 0584 5490.	.853 BE	R FUSELAGE	0000.	1.0034		.8079		
8			- 2.907	1) ORBITER	. 0000			1.3918	.6520	.0169 .0627 0709 0268	.0112 .0119 .0001	a 7.8	1) ORBITER	.0000	1.3707				
DATE 10 FEB			ALPHA (3)	SECTION (X/LB	PH1 140.000 150.000	162.000 165.000 169.000	174.000 185.000	X/LB		135.050 135.050 150.050 150.050 160.050	ALPHA (4)	SECTION (X/LB		55.000 70.000	90.030 120.000 145.036	150.030	162.000

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112			í	e C							3.0236		ę.	350	6.6								
PAGE			•	C fit	0619						•		£6.	.0518	0 4 0.	2023	2	9690	5	37.2			
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_	TUSELAGE			.170		1.0180	1566				•		0771.					CHES.	.5681			1.0180	1583 1678
AMES 11-073-1	/R ORB F			. 1660	.7934	0666.			2517		0		.1660	.1153	1467	1906	.4383	.7654		. 8288	.8206	.9990	
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- 04148 (DEPENDENT VARIABLE	.1120	.2318	.9210	0245	1267 1702 2936	2480	.0716	MACH	DEPENDENT VARTABLE	.1120		1467	<u> </u>	1953	.2180			Į.	.9210	0226 . 0009
TABULATED PRESSURE DATA	MES 11-073(0A148)	-3.870	DEPENDEN	.0700	+171.	.8790	.0471	0876 1668 2156	1129	.2498	.181 M	DEPENDEN	.0700	1073.	. 2768 877	87.4.4.0 0.1.4.0	1351	.1537			. 1812	.8790	.0510
ED PRESS	AMES			.0460	.3180	.8210		1458 0212 . 0426	.1730	2107			.0460	.3822	3970	3792	3545	.3378			.3196	.8210	5751. 15#1.
TABULAT		BETA (1)	H	.0230	3706	£790		318+ 276+ 06+6	.1087	. 1209 1209 1851	BETA (2)	ES.	.0230	<u> </u>	.5580	5.573 5.573 5.573	5009	+314			38-6	.7790	. 1 96 6 . 1988
			R FUSELA	.0080	.6080	.7290	.1355	2574 1995	1625	0259		R FUSELA	0300	1.0063		į	179.				.5916	.7290	. 1450
8		= 7.853	11 ORBITER FUSELAGE	0000.	1.3707	.6520	1080	1339 0916	1733	0749	- 7.959	110RBITER FUSELAGE	.0000	1. 77.49							1.3739	.6520	.1167
DATE 10 FEB 76		ALPHA (4)	SECTION (87/X	PH1 180.000	X/LB		70.000 90.000 105.000	110.000	150.000 165.000	ALPHA (4)	SECTION (X/LB	P#1	20.000	55.000 70.000	90.000 120.000	150 000	151.000 152.050 155.050	169.000	180.000	X/LB	PHI .000 .000

AMES 11-073-1)
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PABULATED PRESSURE DATA
TABULATED
DATE 10 FEB 76
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4								M •		.4970	9468	.0045	2068 1644	0980	0545	0512	5	9						
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	CXE							90.355 •		.3010	¥7.60.	.0559		_	- 385t-	- 3086 -	- 2174							
								D.	į		. 0858	. 0829	2598 2998	3367	5588	5362	9164							
<u>.</u>	į					,	8	98.000	3	•	.088±	0538	. 1015 . 0267	1840	4173	4225	5336	1.0460		2045				
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3/C/R ORE			0000		.3693		c	3	1560	3	. 1032	.0950	1810			.8017	.8209	0666.				- 4259		
) -140A/E		YARIABLE CP		iii		2472 1942 3360	1.2469	MAIE CP								į	C058.	.9600	-, 1486	1439	2800		2899 2604	
7310A148		DENT YAR	•	111		1947 1264 0598	MACH	ENT VARIABLE			<u>.</u>	. 1215 . 0664	. 0583 . 0568 . 1287	1786	3		.2162	.9210			197:		2039	
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<	6		0 .8210	0933 0111 .0595		.45374 .4451 .4998	3		.0450					.314!			.3387	.8210	.1247	. 1430 0942	0439	0897	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
,	BETA (ELAGE	0.477.0	3170 2605 0331		. 1181 . 1647 . 1988 . 2321	BETA C	LAGE	.0230			. 4856 . 4856	.4326 .4318	1465.			.3872	.7790	9771	3159	1319	. 0895	. 2325 . 2322	
	7.959	I ORBITER FUSELAGE	0657. 0	1979 1974	0342	03:0	7.960	1) ORBITER FUSELAGE	. 0080		5599.		<u>1</u>		,		1995	.7290	.1420	2921	-: 1871	0688	0077	
		-	.6520	1332	0621	0164 0119		(1)0481	.3000		1.3618				·		1.3618	.6520	9	- 1216	. 1000	0108	0100	
	ALPHA (+)	SECTION	X/LB	PHI 70.000 90.000 105.000	120.000	150.000 165.000 180.000	ALPHA (4)	SECTION	X/LB	Z	20.000 40.000	35.000 70.000	20.000 120.000 120.000	150.000	162.000	169.000	180.000	X/LB	7. . 080 . 080 . 080	70.00	105.000	120.00c	150.000	,

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1	
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				AMES	AMES 11-073(0A148)		-140A/B/C/R	8	FUSELAGE			(YEBBI4)	(*		
ALPHA (4)		7.960 88	BETA (3)		£.25.										
SECTION	(110RB1TE	11 ORBITER FUSELAGE	JOE 10E		DEFENDEN	DEFENDENT VARIABLE	RE CP								
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	J666.	1.0180	1.0480					
PH1 165.000 180.000	0233	.0106	.1794	.3955	.1 185	1315	3652				•				
ALPHA (5)	11.929		BETA (1)	p	-3.853 MA	MACH .	1.2466	σ	- 600	600.83	a .	= 552.29	9 RN/L	•	3.0248
SECTION	(1) ORBITE	110RBITER FUSELAGE	IGE		DEPENDEN	DEPENDENT VARIABLE	RE CP								
81/X	.0000	0800.	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	. 25	.3010	.3780	.4970	5740
PH1 .000	1.3176	1.1115	.6627	.4801	.3544			7161.		.1637	.1406	1349	558	.1215	.1356
20.000 40.000				.5030 .5430	. 37.6 	. 2341 2007		. 2000. 2000.		1561	.1970	.1566	1746	. 1229	.1585
55.000 70.000 10.000		.7465	7337 -659. 7001.	2089. 2010. 2010.	.3932 .3137 .2779 .745	2555 2356 1381 1707		. 1962 . 1879 . 2397 . 4647		. 2023 . 2023 . 1639	1251	0555 0782 3859	0604 1227 5629		
150.000			.3328	.eem	.1127	.1374		.840z	R707	.0307	5968	5349	2758	1577	
162.000 165.000 165.000								.8461	5969	4653	5566	4501	2407	1031	
174.000 180.000	1.3176	.4609	1980	.2303	. 0933	. 1258	.764	.7587		5506	5347	USE47	2116	0629	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.5600	0666.	1.0180	1.0460				·	
PH1 - 050 - 000 70.000 90.000	.2199 -2199 -2576 -1674	.3676 3878 2857	.3149 4140 3556 2866	.2115 .2271 2068 0837	. 1204 . 0913 1202 2310	.0633 1255 1192 2596	0983 0974 1032 1784		1214	1399					
110.000 120.000 135.000 156.000	- 1917 - 1059 - 170	2123						3375 2961	• .		·		,		

*		3.0248	5740		. 1337 	1051.			•						3. 0248	į	e c	.1330	0660.	
PAGE		ri #	4970	 - 	1921	+90 F	**************************************	.0903	.0504	.0416					•		2/64.	1151.	.0681	3040 2468 1419
	3	EN.	3780		.1592		1304 1825 5507	2180 -	- 1969 -	1972 -					RN/L	1	.3760	. 1665	.1152	1979 2396 3487
	(XE8B14)	552.29	4010		. 1543	. 1303	- 1245 - 1484 - 1343	•	3574	3214					552.20		3010	. 1466	.1043	1745 1984 4701
			3		.1373	. 1523	1754 2245 2664	5912	5153	5730					<u>.</u>		28.5	.1373	.1085	2094 3258 3258
		83	ć	5.	11711	1168	1361	0624	4470	5719	1.0460	1392			600.83		. 204 0	.1572	0480	. 0721 . 0721 . 0721
_	ORB FUSELAGE	= 600.83	į	2/1					5. 5. 5.	•	1.0180	1162			• 600		£1.			
AMES 11-073-1		o		. 155e	1932	2012	1932	.7+35		.7804 .7759	. 9990		45.5	- 3467	0		. 1660	1941	. 1512 1343	.0358 .0630 .1725 .3766
_	-140A/B/C/R	1.2466	E CP	. 1580						. 7872	.9600	0976 0924 1071	2759	3817 2843 2244 3562	1.2466	JLE CP	. 1580			
- 0A148		8		.1120	9666	.2377	. 1526 . 1526 . 1222	.1321		.1333	.9210	.0349	2430	3091 2269 1706 1022	MACH	IT VARIABLE	.1120		. 1919	.0687 .0687 .0819
RESSURE DATA	AMES 11-073(0A148)	.177 MACH	DEPENDENT	.0700	.3643	3591	. 2271 . 1963	. 1380 5283.		6860	.8790		3486	2068 1356 0662	.267 M	DEPENDENT	.0700	3.488	. 3069 . 2867	1896 1404 1231 1231
ă	AMES	n n		. 0460	#88#·	.478 1874.	.3099 .3099 .3099	. 2559.		2365	.8210	.2311 -2311		0336 .1486 .4132	,		.0460	.4842	4006	. 2053 . 2052 . 1931
TABULATED		(Z) (Z)	щ	. 0230	.6652	.6861 16861	.5097 .5445 .5007	3177		757	0677.	.2959 .3164		.0221 .0407 .0339	BETA (3)	SE	.0230	5568	.6292	.4869 .4287 .4053 .3498
		S7 BETA	Y FUSELAGE	.0080	1.1157		.6086	•		11	.7290	.3001	2543	1306	. 932 BE	R FUSELAGE	.0080	1.1016		.4568
76		= 11.937	1 JORBI TER	.0000	1.3247					7	.6553	.2038	1422	0870 0538 0395	6.11	1 JORBITER	0000.	3000		
DATE 10 FEB		ALPHA (5)	SECTION (X/LB		20.000 40.000	55.000 70.000 90.000	140.000	151.000	155.000 169.000 174.000	•			110.000 125.000 135.000 155.000 165.000	ALPHA (5)	SECTION (x/LB	PH!	000.02	55.000 70.000 90.000 120.000

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	ABULATED PRESSORE UATA
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DATE 10 FEB 76	3 Je		TABULATED	TED PRES	PRESSURE DATA - DAINB (AMES 11-073-1)	1 - 0A14	3 (AMES	11-073-	-					PAGE	215
				AME	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	(0A148)	-140A/B/C	3/R ORB 1	FUSELAGE			(XE8814)	814)		
ALPHA (5) =	= 11.932		BETA (3)	a	4.267										
SECTION	SECTION (1) OPBITER FUSELAGE	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE CP	RE CP								
X/LB	0000	. 0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.574
PHI 140.000 150.000			. 2889	.2289	.0616	6,60.		.6614	.4300	1514	5913	4043	1844	0553	
162.000 165.000				:				.7508	.484.	4528	5423	3298	1942	0464	
174.000	1.3099	.4137	.2667	<u></u>	.1065	.1126	.7549	7197.		5604	5191	WEGE	2166	0605	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH000 70.000 90.000 105.000	.1582 .1717 2144 1179	. 2838 - 3530 - 2437	. 2000 . 3041 . 4209 2747	. 2215 - 1899 - 1476	. 1138 . 0923 2629 3271	.0357 .0357 .2780 .2993	1026 1076 2171 2815		1187	1479			•		
1.0.000 1.20.000 1.35.000 1.50.000 1.65.000	0450 0291 0367 0582	1078 0376 0497	0320 .0806 .1296 .0736	1644 . 1829 . 3518	2528 1572 0966 .1303	3961 2389 2167 1714	5117 2958 3785 3785	+ 299							

.5740

DATE 10 FEB 76

(XE8815) (05 AUG 75)

	55,000 N = 35,000 N = 1.100	RN/L = 3.1890		04270 .5740	10260320		1487 0504	+600-	0198	- 0455		+1+0	0372		·											
NC DATA	SPOBRK L-ELVN MACH			.3780	1305		1596	0837	1085	-, 1667		1913	2263													
PARAMETRIC	0000	= 709.32		.3010	. 1466		2029	1757	3262	1961		2765	2306													
	RUDOER = BOFLAP = R-ELYN =	۵		.2510	0879		2380		3527	•	•	4196	****													
	œœœ	599.97		.2040	0629	1098	-,6542	0161	0822 0170	0251		2144	5632	1.0460	3319 2816											
		Ø		.1770							. 5423 . 5995			1.0180	4111											
		o		.1660	0239	0745		1089	.3967	.8294		6488.	.8154	.9990		3747										
		1.0992	IBLE CP	.1580									.9773	.9600	3746 1618 0392	1550	0557	3241								
	999 848	MACH .	DEPENDENT VARIABLE	.1120			.0893	. 2385	-2965. -4908	.5756			.5751	.9210	3137 2624 0187	1050	.0783	26.5								
	.6800 IN.	.851	DEPENDE	.0700		1.0404			.3635	.5468			.5350	.8790	- 2482 - 2633 - 0746 - 0428	1096	0638 .0634	es.								
NTA	1076.	E C				7							.0460					. 4584 . 6 341	.6448			.6113	. 8210	1563 1446 .3483 .3575	91.4.	. 5226 6226
	XMRP YMRP ZMRP	BETA (1)	LAGE	.0230	. 1258	7215	5138	.6215	. 7029 . 7197	1787.			.7239	.7790	0721 0790 2613	.4739	.5318 .5257	4914								
REFERENCE DATA	SS. N.	-4.072	TER FUSE	.0030	.5471				#9/B				.9762	.7290	0247 .0596 .1351	.2210	.2945	.2984								
REFI	2690.0000 474.8000 936.0680	u	11008811	.0000	1.3124								1.3124	.6520	.0725 0431 .1438 .1582	.1531	.1728	.1735								
	SALF SALE SCALE	ALPHA (1)	SECTION ! I JORBITER FUSELAGE	X/LB	PH1 . 000	40.000	55.000	70.050	120.000	150.000	162.000	169.000	180.000	X/LB	241 40.000 40.000 70.000 90.000	120.000	150.000 150.000	180.000								

.4970 -.0236 -.0230 -.0325 -.0200 -. 0164 -. C. 2 -.1174 -.1074 .3780 -. 1285 -. 2260 -.2313 (XEBB15) 709.32 -.8457 -.4057 -.6212 .3010 -. 1423 -. 1901 -. 2249 -. 2045 6744.--.4715 -.4317 -.3962 .8310 -.0870 - 1944 -. 9455 -.5081 -.0496 -.0860 -.1811 -.1086 -.0910 -.2030 -.2866 -.4200 -. 4474 -. FØE. .2040 1.0460 -. 3547 -.2536 599.97 599.97 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE -.3765 .170 4569 5329 1.0180 -.0113 -.0361 -.0207 -.0437 .0437 .9990 8539 -.4012 . 1660 7612 .8510 ø . 1580 -. 1073 -. 1309 -. 1943 9690 .9600 1.0992 -.3559 1.0992 DEPENDENT VARIABLE CP . 189 MACH # -.3013 -.2632 -.0740 -.1338 .1120 .9210 5388 585 HACH -.1808 -.0885 .0166 .0700 - . n 400 - . n 496 - . 0 195 - . 1056 .0170 .0095 .0095 .1215 .2043 .2043 .3863 .8790 £097 1845 4.283 ...1612 ...1477 .3198 .3198 0760 0664 0778 1991 2819 3543 5071 .8210 2685 5358 5745 .0460 6115 6214 3 .4168 .4928 .5125 .5038 .0230 -.0826 -.0828 -2564 -3057 7362 .1368 .1530 .2972 .5144 7322 .790 BETA **EETA** (1) ORBITER FUSELAGE 110PBITER FUSELAGE .0080 .5493 9702 ..0334 1214 .7290 . 24B .3041 ±.070 4.075 . 0000 1.3198 .6520 1.3198 1791 ALPHA (1) ALPHA (13 SECT 10N .000 76.000 105.000 1110.000 135.000 135.000 185.000 186.000 SECTION X/LB

-.0090 .0697

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1981.

-.1690

-.0462 -.0703 -.1422 -.1443 -.1541 -.3073

-.0558 -.0249 .0236 .1004 .3048

.0205 .0205 .0020 .0692 .1242 .1891

0501 0601 0601 1249 1787 1787 1787

1339 1339 2343 2326 4080 4753 5819

20.000 40.000 55.000 70.000 120.000

.5910

-.0829

-.0097 -.0015 -.0300

-.1123 -.1221 -.2178

-.3083 -.4691 -.6999

-.5290 -.5106 -.4913

57.0

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

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DATE TO FEB

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10 FEB 76			TABULATED PRE		SSURE DATA	- 0A148	B (AMES	11-073-1						PAGE	218
				AMES	ES 11-073(0A148)		-140A/B/C/R	8	FUSELAGE			(XEB	(XE8815)		
	-4.075	BETA	A (3)	*	.283										
1 1 ORE	1) ORBITER FUSELAGE	USELAG	ш		DEPENDENT	T VARIABLE	PLE CP								
. 0000		.0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	5740
			.6666	.5605	. 4552	.4765		.6703	. 3487	4745 4798	5316	2693	2883	0327	
162.000 165.000 169.000							į	#808·	£644.	4337	5508	2311	2579	0339	
1.2991	•	1 9+6	.7312	.6165	.5394	.5752	1116.	.8328		5773	4235	2304	2199	0286	
.6520	•	7290	.7790	.8210	.8790	.92:0	.9600	0686.	1.0180	1.0460					
PHI . 000 . 0737 . 000 . 0417 70 . 000 . 057 90 . 000 . 1551 105 . 000		0313 - 1172 1708	.0779 .0727 .2173 .2699	1524 1356 .2827 .2929 .2341	2302 2439 0156 0641	2957 2614 1430 2076	3845 3987 1899 2173	U	3698	3175					
135.000 . 1822 135.000 . 1874 155.000 . 1862 1862.000 . 1863	• • •	2249	.3478 .4350 .4603 .4717	.1582 .4966 .6143	2926 1772 0631	3118 2164 1684 0868	3643 2435 2343 3864								
٠ (5	611	BETA	: V	-3.	.863 MACH	• 3	1.0994	a	. 599	599.94	•	- 709.08	B RN/L	•	3.1892
110RB	11 ORBITER FL	FUSELAGE	4.4		DEPENDENT	T VARIABLE	LE CP								
. 0000	•	0806	. 0230	.0460	.0700	.1120	.1580	. 1660	.1776	0402.	.2510	3010	.3780	0724.	.5740
1.3278		. 6893	.2581 .2963 .4651	. 1606 . 1674 . 2172	. 0802 . 0509 . 1090	. 0250		. 0245 . 0043 0259		0113 0463 1135	0375	0883	0855	1061	0378
55.000 77.000 90.000 120.000	8 6	.8633	.5923 .6565 .6964 .7173	.3615 .4260 .4735 .5467	.3263 .3263 .3540	. 1916 . 2798 . 3196 . 4619		. 1105 1579 1996 15514.			3823 3509 2942	1414 2389 5462	- 1357 - 1591 - 1849	0448 0466 0800	
		·	.6750	.5±38	.4555	.5109		.8093	1965	0704 3416	6086	4140	1830	0640	
							939	.8522	729	4907	-,4919	3761	2126	0487	

5750 5740 -.0326 .4970 **5.97**0 - 298 -. 1943 -.0336 -.0269 -.0300 M .3780 -. 2549 -. 1911 -. 1823 -. 1572 3780 -.0889 -.0874 -. 2065 -. P.128 -. 2570 (XEBB15) - 709.08 .3010 -.2202 -.3189 -.6101 - 2762 -.3013 3010 -.0896 -. 1242 -.3848 -.2978 . 5000 -.5166 -.0386 .0350 -.0968 -.4427 -.4326 -.3902 -.5820 -.6182 -.5238 -.6033 2040 -.5649 1.0460 -.2809 . 20%0 -.5028 1.0460 288.92 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE -.3399 -.2518 0771 1.0180 170 4382 5030 1.0180 0666 . 1660 7744 -.3823 . 1660 0352 0237 0002 0644 0951 1206 3196 7350 8253 9990 .8071 .1580 .9600 -. 1800 .1580 9258 .9600 1.099.t DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2100 -.1516 -.0472 -.1232 -.1786 .9210 -.1600 -.0669 -.0081 .1120 .5013 .1120 .9210 0210 0591 1456 2071 2388 3900 .4775 5131 183 MACH -.1406 -.1012 -.0093 3070. .4439 - 1299 - 1748 - 0421 - 0084 - 0773 .8790 .0700 .8790 9859. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. 1980. .4457 -3.863 .5136 .8210 .0460 1709 1630 1914 2817 3170 3597 4607 .8210 .0460 .5192 = BETA (2) 3860 4463 4486 4290 4107 .6070 .0230 7790 .0230 2392 2785 4035 4917 5928 5828 6274 6309 5059 .1790 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 .8564 .7290 .0540 -. 1452 .0222 .1708 .0080 .7203 .2204 .6920 .7290 9481 -.011 .0000 1.3278 6520 1014 0193 0355 0698 .0320 .0320 .0954 .0000 0426 1.3316 .3316 6520 ALPHA (2)

ALPHA (2

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40.000 20.000 90.000 110.000 135.000 165.000 186.000

FH1 180.000

X/LB Ē ¥080.-

-. 9438 -. 2655

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20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.00

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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BETA (2) =

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ALPHA (2) =

					3.1892		5740		0298	.0312										
							0/54		10ft	0911	0485	0342	0334	0364	0416					
					FN/L		3780		0873	. 0985	.2092		2575	.2760	. 2461					
					709.08		3010		- 1960 -	- 1314 -	2838	•	3310 -	2959 -	3005 -					
							.2510		- 6417 -	- 1980		4823	5915 -	6182 -	5082					
	1.0460				₽. •		.2040		0105	•		- 880. -		.5055	6142 -	.0460	2837			
	1.0180				* 599.94		.1770		•	• •	7 1		.3361	661 <i>4</i> :	•	1.0180 1	3163 -			
	0866.		4119 3437		0		. 1660		.0200	0280	0394	.2166	.6523	.m.	.7919	1 0666.	• •		1.4010	
P.E. CP	.9600	1382 1546 2415	2770 1926 1757	3397	1.0994	RE CP	.1580	-							.8717	.9600	3210 3271 2080		3892 2998	.2888
DEPENDENT VARIABLE CP	.9210	0919 1476 2106	2320 1475 0979	0360	MACH =	T VARIABLE	.1120		. 0238	. 1059	1589	.3082	.4261		7864.	.9210	2224 1874 1662		3519	
DEPENDE	.8790	.0007 0463 1275	1764 1038 0285		4.260 MA	DEPENDENT	.9700		.073 6 .0364	. 1206 . 1206	. 1348 . 1507	. 2 ⁴ 99	.3688		.4371	.8790	1627 1735 0542		2903 -	
	.8210	.2687 -2687 -2687	.2016 .4218 .4528	.5575	<i>*</i>		.0460		. 1719 . 1486	. 1345 . 1958	8186.	. 3624	.4706		.5102	.8210	0687 0627 0523		- 3270.	*
ᅜ	.7790	.1308 .2166 .2855	.3842 .3842 .4171	.4235	TA (3)	H	. 0230		호 왕 원	. 3285 . 3918	.4295	. 5333	.5727		.6131	.7790	, ,	.2356	.3678	. 3882
R FUSELA	.7290	1395	.1782	.2102	DT BETA	PUSELA	. 0080		.6725		.5691				.8222	. 7290	.1056	•	. 1033	.2013
1) ORBITER FUSELAGE	.6520	. 0498	.0867	.0303.	007	1) ORBITER FUSELAGE	. 0000		1.314.						· - 314-	.6520	. 1974 . 0960 . 0428	- 5180.	.1047	. 1215
SECTION :	X/Lo	70.700 90.000 105.000	120.000 135.000 150.000	167.000	ALPHA (2)	SECTION (X/LB	PHI	20.03 .03 .03 .03 .03 .03 .03 .03 .03 .03	55.000	20.000 20.000	140.000	150.000 151.600 162.000	165.000 169.000	860	X/LB	PH1 .000 40.000 70.000	105.000	135.000	150.000

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DATA
PRESSURE
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Ę	AMES 11-073(04148) -1404/0/0/8 000 5100
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	AME

					FBV1 3.1895		0472. 0784.		06210395	0720 .0109	1072	1072 1635	09*1		9090	0509	•						
(XEBB15)					8 8 E		3780		20348	30092		3105 3105	2116		. KK	1244B							
5					1117 -		0102. 0		3 0382	30433	1325		1+64		85C+	3596							
			-		•		.2510		. 0099	0216		3171	6774			5872							
W			1.0460		598.5¢		.2040		.040.	.0085	.080	0083	0868 3309	1 KR117	5	6607	1.0460	200	2287				
FUSELAG			1.0180		iñ #		.1770						9	5288			1.0180	- MIZ	P. G.				
C/R ORB			3666 .		o		. 1660		.0000 .0770	.0881	1896	.4157	7856		.8142	.7299	.9990				3564 2373		
MES 11-073(0A148) -140A/B/C/R ORB FUSELAGE		WELE CP	.9600	3740	1.0960	BLE CP	. 1580								į	CSB.	.9600	2896	3021	08:4 1025	2540	1978	3581
3(0A14B)		DEPENDENT VARIABLE	.9218	1365	MACH .	DEPENDENT VARIABLE	.1120		.0781	. 2517	0405.	4128	.4315			.4270	.9210	1744		1655	2379	1543 0804	8
ES 11-07	¥.260	DEPEND	.8790	. 1026	-3.870	DEPENDE	.9700	!	. 1436	.2152	3331	3644	.3514			.3374	.8790	0761	200	0443	1756	1591	.1924
A	3) =		.8210	.4762	:		.0460		1988 1988	.3279	#39±	.4686	6764.			.40 5 9	.8210	.639	.6397 1745	1396 1743	.1405	. 3082 . 31 <i>2</i> 2	.3900
	BETA (:	-AGE	.7790	.3942	BETA ()	AGE	. 0230		. 57/9 . 4245	. 55655 . 6436	.6591 .6668	.6360	.5586			.4830	.7790	. 1265	1441	26.00	.2798	3147	.3089
	007	110RBITER FUSELAGE	.7290	.2117	3.931 E	1: ORBITER FUSELAGE	. 0080		2/18		.8239					.71 86	.7290	. 1644	19:2	1772	0838	.1111	.1345
			.6520	.1156 .1093	n	1:0R81T	.0000		1.3148							1.3148	.6520	11911	0037	0256	0622	1440	.0551 .0782
	ALPHA (2)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (3)	SECTION (X/LB	Ŧ	20.000	55.000	70.000 90.000	120.000 140.000	150.000	162.000 165.000	169.000	180.000	X/LB				120.000	150.000	180.000

25		3.1895		5780	 878	.0080										,			3.1895		5740	. 988 1	.0325			
PAGE		FEVA.		.4970	0566	0.770	1022	- 080.	0467	0365	0339								•		0.194	0666	0968	COE	555	}
	(XEB815)			.3780	0364	0314	20195 Fair	2181	2017	2231	2381								FENZE		.3780	0350	0659		. 1923	
	EQX)	• 711.89		3010	6340	0590	2162	6085	4562	3545	3353								711.69		.3010	03+7	0797		19 K	
		•		0183	.0160	0194	38+5 - 1 34	3857	6819	57 8 0	6749								.		.2510	.0075	0310		127.	
		598.54		.2040	.0466 8050	.0263		+.1175 2166	4.504.2	5577	6752	1.0460		2836					ŧ.		.2040	.0468	1410		- 1450	
<u> </u>	FUSELAGE	* 59		0771.					Š	4774.		1.0180		3162 2476					= 598.5¢		.1770	•		•	•	
(AMES 11-073-1	8	σ		. 1660	6880 ·	760.	1297	3389	.7039	.7832	.7637	9866.				4160 3748			æ		. 1660	.0893	960	. 0855	. 1007 7.96	:
	-140A/B/C/R	1.0960	ALE CP	.1580						. 8	6	.9600		2841 2848	167± 1941 3107	3330	2347 2347	3571	1.0960	E CP	.1580					
1 - 0A148		MACH .	IT VARIABLE	.1120	.0695	1373	22.46	.3640	.4155		.4395	.9210			1488 2008 2672		2036 1582	. 1663	p	T VARIABLE	.1120	å	1942		. 1820	
PRESSURE DATA	AMES 11-073(0A148)	.189 M	DEPENDENT	.0700	.1392	. 1844 2388	2376	. 2930	.3229		3408	.8790			0524 1082 1798			. 1281	4.249 MACH	DEPENDENT	. 0700	.1586	A C	1453	. 1585 2885	
	APE		•	.0460	5555.	.3313	.3303	.3942	.4218		.4011	.8210	!		25 25 25 25 25 25 26 25 25 26 25 25 26 25 25 26 25 25 26 26 25 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26		. 5861 . 4883	.5222	, , , , , , , , , , , , , , , , , , ,	u	. 0460	.265 1246	.2397	.2340	14. 14. 18.	
TABULATED		BETA (2)	36	- 0230	. 382 4 . 4025	. 5433	.5476 .5586	.5606	.5276		.5020	.7790	1	1438	1643 0437 1843	96.	3042	1. A. A. A. A. A. A. A. A. A. A. A. A. A.	(A (3)	Ж	. 0230	.3739	9414	4339	.4533	
			R FUSELAGE	. 0080	.8193		.6815				.7112	.7290	į	.1715	2390 1640	0359	.0947	÷9:1:	75 BETA	FUSELAC	.0080	.80%			5348	
3 76		3.932	1) ORBITER	. 0000	1.3210						1.3210	.6520		1388	0377	. 7700.	.0556	.0665	3.935	I 10RBITER FUSELAGE	.0000	1.3048				
DATE 10 FEB		ALPHA (3)	SECTION C	X/LB	PHI .000 20.000	55.000	70.000 90.000	170.000	150.000 151.000	165.000 165.000 169.000 174.000	180.000	X/LB	PH1	.000 .000 .000 .000		110.000 120.000	150.000	180.030	ALPHA (3) :	SECTION (X/LB	PH? . 030	40.000 55.000	70.300	26.039 120.000	

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PAGE 223			100 P		.0363	0372		0559						•	,	7033		.0023	.0061	2248	.2739	1137	0851	
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(AMES 1	140A/B/C/		E CP	. 1580				305B.	.9600	2906 2985	2383 2790 3678	4335	3471	BC85	1.0986	RE CP	. 1580							.8527
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PRESSURE DATA	MES 11-073(0A148)	4.249	DEPENDENT	.0700	.2831			.3364	.8790	0811	0981 1564 7598	3058	2541	.069 .	-3.865 M	DEPENDENT	.0700	60,40	2490	3383	3209	£149.		
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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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	. 1650	.6877	0666		3547 2611	0			1464	1530	1537 1840 3549	.6862	.7±39	.7259	0666.	
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DEPENDENT VARIABLE	.1120	.3635	.9210	1280 0555 0672 1451	2357 1944 1355 0640	•	VARIABLE	?	1617	2137	3358	3613		3795	9210	1084
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930	.0460 .0700	.3102 .2319	.8210 .8790			. 179 MACH	DEPENDENT		.2598	.2683 .2660	, , , ,	•		•	•	
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	.0460	.3102	.8210	.08680208 .10560579 .07760138 .05320593	.13181996 .33922015 .40931038 .1620	BETA (2) = .179	DEPENDENT		.3671 .2598	.3862 .2683	. 3373 . 2304 . 3262 . 2257 . 3231 . 2266	. 3276 . 2302		. 2992 . 2415	. 8210 . 8790	.09850013
SECTION (1) OPBITER FUSELAGE DEP	. 0230 . 0460	.3541 .3102	.7790 .8210	.3092193608680508 .3092396907760138 .2516271105320593 .07780138	.1753 .13181996 .1576 .33922015 .1656 .40931038 .2212 .1626	(5)	LAGE DEPENDENT		.5108 .3671 .2598 .5270 .	.3862 .2683	. 5405 . 3373 . 2304	. 3276 . 2302		. 3849 . 2992 . 2415	. 0678. 0138. 0677.	.2021 .09850013 .2258 .11710388

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE DATE 10 FEB 75

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					709.30		.3010	.0326	0225	.3788	4432	3913	- 4041			
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		1.0460			599.29		.2040	9201.	.0717		3157 5980	6065	. 7198	1.0460	2531 2429	
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.179	DEPENDE	.8790	0738 1606 2407	2718 1785 1149	4.242 M	DEPENDENT	.0700	5.443.	2.15. 25.15.	1333	. 1943		.2315	.8790	0171 0430 1606 2291	3440 2626 1963
		.8210	.0518 .0188 .0765	. 3532 . 3532 . 5421 . 5559	ŧ		.0460	.3604	31.5	25.55 25.55 25.65 25 25 25 25 25 25 25 25 25 25 25 25 25	.2982		.3i10	.8210	. 1061 1061 . 0216 . 0195	
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	DORBITER FUSELAGE	.7290	3249 2283	1082 0332 0035		R FUSELA	.0080	. 9293		7.927			.5409	7290	. 3202 2056 · .	0815
- 7.965	11098116	.6520	1124	0419 0432 0673	a 7.966	1 : ORBITER FUSELAGE	. 0000	1.275.1					1.2758	.6520	. 6559 . 6559 . 6559 . 6559	. 6393 .
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	1,353					- 709.53		.3010	. 1093	.1121	1160	5195	6833	5499	4312							
						<u>.</u>		.2510	10.	. 1349	20374	3492	7836	7349	6906							
				1.0460		598.93		. 204r	. 1813	2029	1517	.0108	2200	659+	7523	1.0460	2161	2043				
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A - 0A148			DEPENDENT VARIABL	.96.1n	2550	MACH =	NT VARIAE	.1120	0 11	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	. 2851 . 2851 . 2816	294 4	.3062		.3107	.9210	0609	0126 2140 2042	2658	2639	2095	
PRESSURE DATA	AMES 11-073(0A148)	242	DEPENDE	.8790	.0116	3.850 M	DEPENDENT	.0700	3545	1085 1085	3095	1834	1294		.1412	.8790	.9802	0967 0967	1440	1949	1423 .0833	
	AME	<i>3</i>		.8210	.4883	3		.0460	.4593	5278	4.584	.2840	.2189		.2186	.8210		0550 0179	. 0582	. 280 -782.	1974.	. 5253
TAFULATED		BETA (3)	AGE	.7790	.2743 .2524	BETA (1	AGE	.0230	.6335	7452	.5285 .5694	7444.	.3142		.2415	.7790	.2597	4662 3870	1230	.0572 .0698	.0674 .1613	.2391
		7.966 B	1) ORBITER FUSELAGE	.7290	. 0032		110RBITER FUSELAGE	. 0080	1.0512		.707.				.4207	.7290	.3209	3843		1973	1796	0386
B 76		. 7.	1.0RB1T	.6520	.0943	= 11.925	1109811	.0000	1.2319						1.2319	.6520	.3209	- 139+ - 139+ - 07+0		1789	0574 .0407	.0796
DATE 10 FEB		ALPHA (4)	SECTION (X/LB	PHI 165.000 180.000	ALPHA (5)	SECTION (X/LB	FH1 .000	40.000 10.000	70.000	120.000 140.000	150.000	162.000 165.000 169.000	180.000	X/LB	PH1 .000	70.000 90.000	105.000 110.000	120.000	150.000	189.000

Column C	DATE 10 FEB 76			TABULATED	ED PRESSURE	URE DATA	- 0A148		(AMES 11-073-1	•					PAGE	227
1. 1. 1. 1. 1. 1. 1. 1.					AMES	Ξ		-140A/B/C	929	USELAGE			(XEB)	315)		
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1.696 3.797 1.797 1.797 1.797 1.797 1.967 1.798 1.967 1.96	5000		.5615	.5085 .5085 .4666 .3830	.3166 .3166 .2847 .2360	. 2047 . 1911 . 1355	. 2096 . 2219 . 2880		.1574 .1902 .3525		. 0423 . 0423 . 0658	2889 3574 4056	2038 2292 5656	2021 2662 6656	3223 3180 2029	
. 6982	000			.2967	.2272	3711.	.3065		9699.	2072	1918	7768	•	2415	•	
	2000							· f	.6982	45554·	6408		3444	1931	0495	
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000	.65	520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	i.0180	1.0460					
10N (1)0RBITER FUSELAGE 10N (1)0RBITER FU		11 1 1	.3284 .4288 .3054 .1404 .0910		589 824 759 916 028 157 435			1831 1957 2605 3458 3544 3561 3312 3726		1993 1993 1993	: . : . : .					
1.2207 1.0375 .5188 .4635 .3123 .2957 .2080 .1781 .1781 .1067 .2040 .2510 .3010 .3780 .4970 . 1.2207 1.0375 .5188 .4635 .3729 .2652 .1866 .1781 .1103 .0456 .0302 .0445 .0338 .2957 .2080 .1564 .0951 .0752 .0776 .2804 -2823 -3487 .3923 .2151 .1057 .1480 .1013 .0674 -3350 -2804 -3613 -1501 .1501 .3789 .2959 -15016 -1516 -1516 .1057 .1893 .1842 .2018 .0907 .1803 .1878 -1516 -1516 -4668 -5616 -2613 -1501	<u>(2</u>	11.92		_	*			1.0981	0		.93	•				.1856
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1.2207 1.0375 .5188 .4635 .3223 .1078 .1981 .1743 .1268 .1163 .1078 .0938 .0336 .2547 .2080 .1781 .1781 .1103 .0456 .0302 .0445 .0338 .24475 .2550 .1564 .0951 .0752 .0778 .0778 .0778 .335028042863 .2463 .2463 .1578 .2518 .2518 .0907 .1803 .137801624097350435131501	90.	000	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0.64	.5740
. 323 - 283 - 282 - 325			.0375	.6188 .5937 .5 ⁴⁵⁶	.4635 .4213 .3799	. 2957 . 2957 . 2662	.2080 .1866		1981 1781 1641		1143	. 1268	.0302	.1078	.0338	.1731
	8000		.4167	3923 3598 3598 3731	.2151 .2018 .1842	.0907 .0907	. 1803 . 1803 . 2660		. 1013 . 1378 . 2959		.0674 0162 1516	3350 4097 4668	2804 3041 6164		3487 2463 1501	

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PAGE				.4970	0602	0524	0640		
	(XE8815)			.3780	1976	1812	2059		
	CXE			.3010	4975	4199	4403		
				.2510	7786	6979	6888		•
				.2040	5981 5981	6508	7662	1.0460	2335 2454
-	S 11-073(0A148) -140A/B/C/R ORB FUEELAGE			.1770	1	3545		1.0160	- 2411 - 2411
11-073-	C/R ORB			. 1660	.5913	6779	.6829	.9990	4879 4546
SURE DATA - DAI48 (AMES 11-073-1)	-140A/B/		BLE CP	. 1580			.7517	.9600	- 2032 - 2386 - 2386 - 3840 - 5842 - 4018 - 4108
'A - 0A1"	3(0A14B)		DEPENDENT VARIABLE CP	.1120	4462.		.3113	.9210	0626 0506 2803 2787 5113 3653 3368
SSURE DAT	11-073	. 259	DEPENDE	.0700	. 0926		. 1254	.8790	.0089 .0089 .2192 .3588 .5339 .2793 .2793
TABULATED PRES	AME			.0460	5072		.2256	.8210	.1485 .1679 .1679 .1455 1331 0743 .2336 .4728
TABUL		BETA (3)	AGE	. 0230	.2743		.2602	.7790	. 2633 . 2809 4649 3410 1159
		11.928 B	ER FUSEL	.0080			.3803	.7290	.3162 4235 2965 1146 0398
8 76 8 76			1108811	.0000			1.2207	. 5520	.3166 .3207 1239 0561 .0339 .0366 .0971
DATE 10 FEB 76		ALPHA (5) =	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 140.000 150.000 151.000	165.000 169.000	180.000	X/LB	PH1 .000 70.000 70.000 105.000 110.000 135.000 150.000 165.000

PAGE 229	(XE8B16) (05 AUG 75)	PARAMETRIC DATA	.000 SPOBRK = 35.000	MACH	= 1056.2 RN/L = 3.5811		.3010 .3780 .49/0 .	07230332 .00410145	-,1236 -,0818 -,0405 -,0442	- 0226 . 0607 . 1049	1338 .0324	0738 .0260 .0503	0273 .0180 .0420		0224 .0112 .0350						
			RUDDEF BOET AT	R-EL	G H.		.2040 .2510	21551905	2608 43143951	2829 22767148		27038487	82627677		93097595	1.0460	1493				
•	FUSEL AGE				= 601.77		.1770						3887			1.0180	0756				
TABLILATED PRESSURE DATA - OAIHB (AMES 11-073-1	C/R ORB F				o		. 1660	2189	2625	1986	-,0668	.6553		.7168	.6390	.9990			3030		
3 (AMES	-140A/B/C/R				.90217	BLE CP	. 1580								199.	.9600	2477	0671 1080 1571		1720 3265	
A - 0A146	11-073(0A148)		8	22	MACH	DEPENDENT VARIABLE	.1120		2463 2459	0986 .0615	.3252	¥12.			.4153	.9210		0262 0842 1368		0913	
SURE DATA	5 11-073			0000 0000 IN.	-3.852 M	DEPENDE	.0700	1716	2286	0010	.3311	4006			.3881	.8790	4630	0671 1248 2345		201 150 150	. 033
red PRES	AMES		1076.1	. 375.0000			.0460	-,1107	1371	. 0888	3110	1664			.4676	.8210	. 3±13	. 1660 . 2001 . 2493	.3466	.4500	.5051
TARILA		5		YMRP	BETA (1)	AGE	.0230	- 0759	0483	3364	5480	.6395			.5831	.7790	- 2418 - 2741	1621	.2907	3572	.3176
		OPERBRANCE DATA	Sa.FT.	z z	23	IR FUSEL	. 0080	145A	}		.7309				.8407	.7290	1961	0396	.0921	. 1398	.1325
ć ŭ	2		75757 690.0000	474.8000 936.0680	= -4.023	11088178	.0000	1003	569						1.1893	.6520	1288	. 1291 . 0585 . 0585	.0637	.0748	.0682 .0594
35 033 01 3100		•	SHEF = 21	# # #	· -	SECTION (1) ORBITER FUSELAGE	X/LB	PHI	20.000	55.000 25.000 20.000	90.000	150.000	151.000 162.000	169.000	174.000	X/LB	PH1 . 000	20.06 20.06 20.06 20.06	110.000	135.030 150.000	1 65.000 180.000

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	(9)	ă			.3780	0293	0404	.0430	.010. 0109	.0185	10.		.0220					i		900			
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	•	•		3	3 C	1999	3641	7527		8388	. 1411		- 7368					•		10 10		ľ	0411
		601.77				2337	3755	3436 3241 - LEBS	4316	4535	8426		. 9492 20192	1.0450	1504			7		2040	1	2570 3238	
-	FUSELAGE	•	}	1770	?						3103			0810.	1276			* 601.77		.1770		11	ĺľ
: 11-073-1	9	a		1860	3	2062	30%	- 1824 - 1583	.0636	.5789	į	200	.676	0666 •		3156		o		. 1660		2238 2622	
48 CAMES	-140A/B/ 3/R	.90217;	BLE CP	-								.8136	og o		2328 2500 1138 1385	2769	2233	.90217	S S		ı	• • •	
TA - 0A148	-073(0A148)	MACH #	INT VARIABLE	•		2228	2166	0212 .0134	.2342	.3692		1401	, cat.		4446 3804 1140 1622 2108		•		T VARIABLE	. 1120	1	1986 1986 1504	97.0
ESSURE DATA	MES 11-072	.188	DEPENDENT	.0700				.0281		.3547		4070	.8790		4586 4140 2095 2753	3581		.285 MACH	DEPENDENT	.0700		1989	
2	A	. (S	•	.0460		1060 1238	1087	· 1.0 · 1.0	.3466	.4623		4754	.8210		3427 3349 .0993 .1278	. 2370 . 4594		÷		.0460		1335	
TABULATED		BETA (2	AGE.	. 0230	į	0660 0465	. 1045 . 2466	. 4.288 4.288	. 5363	.5078		.5913	.730		2430 2349 .0267 .0889	.3069	3326	TA (3)	ж	. 0230	.0753		.3036 .3036
		-3.925 B	ER FUSELAGE	.0080		.3627		.581				.8345	. 7290		1979 0580 0036	5170.	.1427	33 BETA	PUSELAGE	.0080	. 344E .		.4211
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DATE 10 FI		ALPHA C 1	SECTION	X/LB	i i	50.000 100.000	35.000 50.000 50.000	90.000	140.000	151.000	165.000	180.000	X/LB	Ē	40.000 70.000 90.000 105.000	120.000 135.000 150.000	165.000 180.000	ALPHA (1)	SECTION (X/LB	200	55.000	. 86. 86. 86. 86. 86. 86. 86. 86. 86. 86.

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		5740								3.5748		.5740	9520	. 0233			
		.+970	.0176	.0267	.0293							.4970	.0192	9100.	.0522 .0502 .0116	.0050	8400.
9		.3780	0025	.0010	9800.					FN/L		.3780	.0270	0358 -	.0159 0050 0050		.0140
(XEBBID)		.3010	0601	0294	0202					1058.1		.3010	- 6280 -	- 8680	1389	£479.	1479
		.2510	8553	7489	7588					•		.2510	1885	2784	6540 6443 6090	9825 -	- 4498°-
		.2040	7985 8758	8494	9357	1.0460	1502 1528			599.69		.2040	-	2483		. 3764	9102
r UDELAUE		.1770	.1158	. 2240		1.0180	0861			* 599		571.					
UNY BY CYN, UNB FUSELAUR		. 1660	. 4825	.6354	.6614	0666.		2670		o		.1660	1634	2201	0499 0185 1985	.6296	.6762
בר אסר ו - אסר ו -	BLE CP	.1580		i	78C/ ·	.9600	2472 2109 1559	3794 4847	2883 2336	.89983	RE CP	1580					7848
201	NT VARIABLE	.1120	.3052		.4130	.9210	3938 3736 2693 3533	15953 4749	4 108 3 452	MACH ==	IT VARIABLE	.1120	631	1235	. 1459 . 2939	Bath.	
F. 285	DEPENDENT	.0700	.2961		.3867	.8790	4507 4350 3027 3722	56424 4803 4803	+ 150 · · · · · · · · · · · · · · · · · · ·	.871 M	DEPENDENT	.0700	0864	0651	. 1533 . 1920 . 2848	.3065	
3) = 12		.0460	9904.		.4671	.8210	- 3438 - 3314 - 0566 - 0698	.0953 .3740	.5268) = -3.		.0460		. 1979		.4003	
BETA (:	-AGE	. 0230	.5135		.5871	.7790	2358 2257 0065 .0557	.1530	.2979 .3224	BETA (1	AGE	. 0230	. 1093	.4286	.5017 5467 5723	.5347	
-3.933	1) ORBITER FUSELAGE	. 0080			.8085	.7290	2026 0566 0103	3440.	.1351	.017 B	1) ORBITER FUSELAGE	.0080	.5139		.7180		
n	(1)0881	.0000			1.1804	.6520	1326 1602 .0100 .0329	. 0438	.0550	Ħ		0000.	1.2051				
ALPHA (1)	SECTION	x/L3	PHI 140.000 150.000 151.000	165.000 169.000 174.000	180.000	X/LB	PHI .000 70.000 90.000	135.000	165.000	ALPHA (2)	SECTION (X/LB	PH1 . 000 20.000	40.000 55.000	70.000 90.000 120.000	150.000	162.000 165.009 169.000 174.000

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BETA (1) =

.017

ALPHA (2) .

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SECTION (1) ORBITER FUSELAGE	R FUSELA	F.		DEPENDE	DEPENDENT VARIABLE	RE CP								
X/LB	00000	.0000	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.8310	.3010	.3780	.4970	.5740
PH1 180.000	1.205.1	.7142	.4581	.3636	2916	.3366		.589 .	•	-1.0509	8542	0794	* 110.	.0027	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PH1 - 000 - 70 - 000 90 - 000 105 - 000 120 - 000 150 - 000 150 - 000 165 - 000	0513 . 1085 . 0640 . 0513 . 0122	0863 2116 1381 0141 .0651	- 1582 - 1431 - 00170 - 0693 - 1385 - 1385 - 1372 - 1372 - 1372 - 1372 - 1373 -	- 2568 - 2568 - 1506 - 1840 - 2312 - 2979 - 2996 - 2996	3824 3487 0693 1314 2334 3597 2687	- 4371 - 3669 - 0171 - 0171 - 1274 - 2018 - 1395 - 1395	- 2617 - 2839 - 0571 - 1019 - 1737 - 1737 - 1737 - 1737	ារ សុល្ប ! !	3743 1414	1.1478 1.1495					
ALPHA (2)	ð.	0+3 BE	BETA (2)	n	. 183 M	MACH .	. 89983	a	296	599.59	•	1058.1	PN/L		3.5748
SECTION :	(1) ORBITER FUSELAGE	PUSELA	æ		DEPENDEN	DEPENDENT VARIABLE	XE CP								
X/LB	.0000	. 0380	. 0230	.0460	.0700	.1120	. 1580	.1660	1770	. 2040	.2510	.3010	.3780	4970	.5740
PHI 20 000 40 000 40 000 95 000 120 000 151 000 152 000 165 000 174 000 187 000	1.2084 1.2084	.5635	0730 0016 0016 2755 3754 3754 1474 1474	- 0035 - 01036 - 01036 - 0005 - 0005		. 1453 - 1205 - 0367 - 0369 - 0185 - 0069 - 2100 - 3042	392.	1615 1809 1.2003 1.1520 1.1338 1.1338 1.143 1.143 1.143 1.143	. 2689 	1.1705 1.2867 1.28627 1.43837 1.43638 1.8341 1.938		0782 0613 1332 1564 1564	0165 0111 0034 .0065 .0185 .0291	. 0266 . 0141 . 0325 . 0325 . 0153 . 0156	2820°.
X/LE	. 5520	.7290	.7790	.8210	0678.	.9210	.9600	.9990	1.0180	1.0460					
941 .050 .04	- 0369 - 3669	9980 -	1556	2629	3962 3713	4432	2578 2697		0836 1278	1568 1625					

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57.0 .017 7160. **233** – 0333 0739 0175 .4970 200 0170 8 .0063 Z .3780 0099 0189 0141 0163 .0127 **5**00 -.0193 五. (XEBB1B) .3010 -.0975 -.1700 -.2671 -.0814 -. 093+ -.0828 -.051 -. 1441 -. 7845 -. 7831 -. 7831 .23:0 -. 1929 -.2823 -.9653 -.8703 -.8713 -.1758 -.1882 -.2120 -.2831 -.3341 -.4991 -.5628 -.5628 .2040 . -. 8728 -1.0583 1.0460 599.69 .1770 1.0180 1.0180 . 1946 . 1823 -.0819 -.1080 9880 . 2445 . 2445 -.1530 -.1886 -.1722 -.1849 -.1887 .1660 9990 .4576 .59£ .6111 -.1060 -.1440 -.1986 -.2583 -.2359 -.2467 -.2180 .9300 .89983 . 1580 .7118 -.2686 -.2272 -.1575 -.1853 -.1990 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .9210 - 1002 - 1550 - 1994 -.2978 -.2506 -.2567 -.2426 .1120 -.1524 -.1135 -.0786 -.0403 -.0266 9210 -.4281 -.3875 -.2857 -.4334 -.4959 25.46 MACH -.2272 -.3189 -.4369 -.5102 -.3937 -.3120 -.1030 .8790 .0700 -.0946 -.1202 -.1327 -.0428 -.0283 -.0177 -.3772 -.3662 -.3222 -.3985 -.5194 - 9539 - 5239 - 5239 .8790 2853 4.263 .8210 .3362 .3991 .4513 .0743 .0911 .1249 .8210 -.0055 -.0300 -.0184 -.0184 -.0503 -.0503 -.0503 -.4718 -.2591 -.0254 -.0330 -.0330 .0460 .3213 9833 3412 1210 3 . 1790 .0910 .0910 . 2425 . 2425 . 2651 . 2656 . 2738 .0230 .0636 .0646 .1530 .2330 .2679 .3079 -.1511 -.1398 -.0648 -.0006 .1686 138 C **BETA** 1) ORBITER FUSELAGE 110RBITER FUSELAGE -. 2234 .7290 .0613 -.0195 .0763 .0080 5026 .4118 -.0826 7290 -. 1931 -. 1214 -.0220 999 8 .043 .037 -. 119t -.000: -.0033 -.0040 .6520 -.0291 .0000 1.1932 1.1932 6520 ..0220 ALPHA (2) ALPHA (2) 70.000 90.000 105.000 1110.000 135.000 165.000 SECTION SECTION 888888888 Œ Ē . 358835888

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						AME	S 11-073	(0A:48)	AMES 11-073(0A:48) -140A/B/C/R ORB FUSELAGE	C/R ORB	FUSELAGE			(XEBB
ALPHA (2) #		.037	.037 BETA (3) + 4.263	~	3	<i>*</i>	.263							
SECTION (110RBITER FUSELAGE	110RB11	TER FU	SELAGE			-	DEPENDE	DEPENDENT VARIABLE CP	BLE CP					
X/LB	.6520	.72	.6520 .7290 .7790	7790		.8210	.8790	.9210	.8210 .8790 .9210 .9600		.9990 1.0180 1.0460	1.0460		
PH1 165.000 180.000	0010	.0789		.2546 .2761		.4231	1859	185940932240	2240					
ALPHA (3)		68	BETA	-	=	μ,	3.891 BETA (1) = -3.577 MACH = .90107	* HOW	.90107	ø	= 600.53	.53	•	- 1056.6
SECTION (1) ORBITER FUSELAGE	1.00/817	ER FUS	SELAGE				DEPENDE	DEPENDENT VARIABLE CP	PLE CP					
X/LB	. 0000	.00	.0000 .0080 .0230	7230		.0460	.0700	.1120	0405. 0771. 0881. 0511. 0511. 0700. 0840.	. 1660	.1770	.2040	.2510 .3010	.3010

5740

0.697.

.3780

.0814 1004

.0632 .0552

-.0043

-.0641

.0126

-.0419

-.1677 -.1339

.0291 .0192 -.0572

..0279 ..0298 ..0850

-.1620 -.2278 -.3519

-.5784 -.6113

- 1048 - 1236 - 1136 - 1299 - 2566 - 2566 - 3507

-.0930 -.1065 -.0914 -.0016 -.0011 -.0011 -.0054

-.0675 -.0019 .0937 .1353 .1614

.0121 .0021 .0631 .1808 .1929 .1993

1055 1093 1699 2801 29+1 3135 3337

. 50149 . 5011 . 5011 . 5136 . 5769 . 5002

.6912

.6646

1.1980

-. 0172

.0121

-.4277

-1.0470

-.0018

. P+26

-.2842

-.9178

-1.0846

-. 3094

.0374

-.4206

-.8626

-. 9536

6405 5428

7457

.2670 .9210

1979 .8790

2652 8210

3440 7190

5788 7290

1.1980 .6520

.2798 .3084

5085

.2741

•		
1.0460	1402 1485	
1.0180	0591 1398	
.9990		2152 2152
.9600	4177 3361 0943 1457	1558 1856 1894 2162
.9210	3623 3338 0048 0659	1829 1528 1528
.8790	3068 2827 0491 2019	3446 3175 2545 0032
.8210	2081 1856 1.228 497	. 1633 . 2351 . 1886 . 3454
.7790	0791 0597 0786 .0070	9155 9175 9255 9359 9359
.7290	. 07.15 4344 3443	1467
.6520	. 0509 . 0261 2087 1630	1794 0822 0647
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TABULATED PRESSURE DATA - DAIH8 (AMES 11-073-1)

.5740 .0839 5750 55 <u>5</u> .4970 0100 .0578 .0058 .0545 -.0003 .0668 .0045 .009 .0081 .4970 .0618 .0423 18. 18. -.0295 -.0217 -.0165 3780 #I IU. -.03% -.0107 -.0172 3780 .0080 .000 .3010 -.0873 -.0713 -. 7201 -. 7899 -. 7763 .8310 - 1284 -.2128 .1679 .1508 .2021 .2567 .4073 .2040 170 .1660 -.0893 -.1021 -.1084 -.1184 -.1368 -.1307 . 1580 DEPENDENT VARIABLE CP .1120 -.0654 -.0401 -.0326 -.0101 .0083 .0700 .0030 .0034 .0034 .0038 .0460 .1059 .0760 .0816 .0880 .0755 .0913 .0230 SECTION (1) ORBITER FUSELAGE .0080 3756 <u>.</u> .0000 1.1849 20.000 40.000 74.000 74.000

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		19740	!						3.5741		5740	.1431	. 1630			
		02.64	.0056	. 0005	00E7	1			•		4970	1110	1096	0047 0182 1561	0452	0190
<u> </u>		3780	.0407	.0333	.0390				FBN/L		.3780	3460.	. 0582	0883 - 0985 -	6660	- 1255 -
(XEBB16)		.3010	3239	2351	2652				1056.6		.3010	0253	.0028	1898 - 2422 - 5068 -	- 9194.	5009 -
		0165	-1.0319	8943	9463						.2510	0583 -	- 6080 -	5011 6027 6491	- +659.	6558 -
		.2040		9828	-1.1017	1.0460	1411				.2040	•	•	0921 1680 2516	3692 4770 -	.0139
USELAUE		.1770	9180	. 1520	•	1.0180	1017		= 600.53		0771.	•		•••		2075. 1-
		. 1660	.4337	. 5541	.5651	.366·		2994 2389	ø		. 1660	0192	.0115	. 0283 . 0489 . 2060	:5857	. 6004
	BLE CP	.1580			000	.9600	3717 2783 1409 1687	2331 1947 2118 2158	.90107	רי כם	.1580	•				. 6999
	DEPENDENT VARIABLE	.1120	.2052		.2826	.9210	3768 3445 2061 2463 3354	6371 5385 5153 4639	# 8	T VARIABLT	.1120	.0303	1004	.1571 .1571	1661 .	
4.257	DEPENDE	.0700	.1389		. 1917	.8790	2936 2958 3357 4109	6299 5399 4472 2415	3.868 MACH	CEPENDENT	.0700	.1142	. 1779	.1964 .1871 .1476	.1182	
t = (6		.0460	.2320		.2429	.8210	2096 1885 0090 0118	. 3333	n 		0940.	.2336	. 3342	.3087 .2895 .6895	. 1836	
BETA (3	AGE	. 0230	3236		. 3508	.7790	0785 0631 1456 0729	. 1522 . 1794 . 1807 . 2005	BETA (1)	Ä	.0230	.3556	. 5450 . 5457	.5149 .4894 .4037	.2303	
4.017 B	110RBITER FUSELAGE	.0080			.5351	.7290	.0036 4109 2926	1276 0153 .0087		R FUSELAGE	.0080	.8010		.5322		
	1108811	.0000			1.1849	.6520	.0497 .0456 2281 1666	0966 0517 0725	- 7.978	1:ORBITER	. 0000	1.1586				
ALPHA (3)	SECTION (X/LB	PHI 140.000 150.000 151.000	165.000 169.000 174.000	180.000	X/LB	74.000 70.000 90.000 90.000		ALPHA (4)	SECTION .	X/LB	PH. .000 .00.05	55.000 55.000	20.000 120.000 140.000	150.000	162.000 165.000 167.000 174.000

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

		3740						3.5741		9.7°	3741.	<u> </u>							
		0764.		3018						0784.	. 1283	. 1036	0156 0256	1200		. 5569	£00.		
		3780		1330				7/6		.3780	.9403	.0476	0870 0808		. ego.	.0161	.0133		
		3010		. 4978				1056.6		3010	0177	0473	25.5 88.4 88.4		504	4560	3576		
		8		6463				• •		0155.	0595	1162			6392	6461	6699		
		C 100		9127	1.0460	1308 1339		600.53		.2040	032	0533	1528 2512	3593 5002	8359	-1.0280	-1.1266	1.0460	1309
					1.0180	0397		• 600		0771.					Ē	450V	•	1.0180	0453 1093
		600	2001.	1764.	0666.		1	0		. 1660		0183 0056	0349 0455 0238	.1347	.5004	.5567	.5324	.9990	
	LE CP		1261		.9600	4774 4509 1836 1404 1775	1926 2114 2111 2093	.90107	LE CP	. 1580							196	.9600	4706
	DEPENDENT VARIABLE		. 1 120	. 1989	.9210	3495 2950 0661 1202	2320 2024 1864 1631	MACH	IT VARIABLE	.1120		.0679	.0592 .070. 7.180.	. 1659	<u>.</u>		.2118	.9210	3518 2978
2 050	DEPENDEN		. 0700	.1047	.8790	2141 2198 0955 1386	3347 3465 2783 0697	.181 M	DEPENDENT	.0700	5 0	. 1335	. 1278 . 0929 . 0870	. 0858	.0389		5.1072	.8790	2172 2327
	•	i	. 0460		.8210	1324 1131 .0885 .0650	.2024 .2651 .3084			.0460	.2250	.2359	. 2238 . 1954 . 1861	1851	. 1812		.1624	.8210	1285
	: - Է լյ	;	. 0230		0060 1369 0602	.0913 .0913 .0909 .0999	BETA (2)	GE GE	.0230	36+9	3794	3935	3325	£075.		.2386	96 <i>T</i> .	.0239	
			.0000		.0807 5703 4670	2618		110RBITER FUSELAGE	.0380	.8059		998				.4057	. 7290	.0851	
1	1.0881TER		. 0000	1.1586	.6520	;1306 .1358 3060 2507	3082 1522 1281 1214	= 7.92 ⁴	1104811E	. 0000	1.1690						1.1690	.6520	. 1346
	CFLITTIN !	•	x/LB	PH1 180.000	X/LB		1.70.000 1.35.000 1.50.000 1.65.000	2	SECTION (X/LB	PH!	20.000 40.000	55.000 70.000	120.000	150.000	151.000 162.000 165.000	174.000	хле	PHI .000 .000

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				AME	AMES 11-073(0A148)		-140A/E/C/R	ORB B	FUSELAGE			(XEBB16)	16)		
ALPHA (+)	•	7.924 B	BETA (2)		181		•								
SECTION	(1) ORBITER	ter fuselage	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	.6523	.7290	0677.	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
PH1 70.000 105.000	3098 7125	6264 4716	1832 1220 0134	.0178 .0103 .0083	1949 2870 3746	1429 1923 2343	1287								
135.000 135.000 150.000 165.000	2143	2502 1221 0841	.0098 .0834 .1067 .1282	.3802 .3802	4901 4430 3600 1710	3566 3095 2982 2963	2303 2396 2324 2021	- 8193 1933 1933							
ALPHA (4)		.921	BETA (3)		4.257 MA	MACH	.90107	a	- 60	600.53	•	• 1056.6	T/NE	•	3.5741
SECTION	1100011	110RBITER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	BLE CP								
X/LB	. 0000	.008r	. 0230	. 0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	3780	orer.	3740
PH1 .000	1.1511	. 7926	. 3538	.2185				0129		0379	0614	0355	.0493	8	8
10.000 10.000 10.000			.3327	. 1856 1719	5770. 5770.	.0117 20195		0304		0583	1596	1153	. 0245	£ 383	.1512
96.000 000.000		.3317	0175. 0755.	. 389c . 086c				1050 0887		2030	6493	2701	400 0530	0388	
120.000			1655	11157		. 1245		.0539		4647	7795			0172	
150.003			.2312	1154	.0614	. 1654		.4152		-1.0050	653¥	3927	0235	.0073	
162.000 165.000 169.000							1	5172	1895	-1.0347	6999	- 4624	329	5078	
180.000	1.1511	.38 2.	. 2350	0441.	. 0983	.2020	Š.	. 5250	•	-1.1312	5 č e.	4246	0253	. 5990	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0450					
PH1	. 1353	.08%					4712			1291					
70.000	. 1398	5780		1078 0533	2366		4128 !ñ32		0945	1462					
90.000 105.000	2340	+289	-179			27.15 1.775	1846 2,51	Š							
120.000	1593	2256	0617	.0256		5525	2 ⁴ 32	2338 2338							
150.000	0978	087	1157				7. C.								

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				AME	AMES 11-073(0A148)		-140A/B/C/R ORB FUSELAGE	S/R ORB	FUSELAGE) XE	(XE8816)		
ALPHA (4)		7.921	BETA (3)		4.257										
SECTION (LIORBITER FUSELAGE	.AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600)666·	1.0180	1.0460					
PH1 165.000 180.000	1008 1254	0799	£8:	1476.	2332	4395	1974								
ALPHA (5)		1.916	BETA (1)		-3.856 M	MACH -	.90000	8	* 59	599.65	a	- 1057.6	6 RN/L		3.5745
SECTION (1 JORBITER	PER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PH1	1.0984	0126	C80	2363	910			9,50		900		0000	2900	200	ë
20.000			5461	3603	22.76	.1325		0.7±6		0461	1000	9960	2000	3	
55.000			. 5165 . 5665	+10+. 363+	. 861 1987 1987	. 1941 15831		.1141		.0573	.0135	.0579	.1143	.1739	Ñ.
70.000 90.000		.5586	.+302	.3013	. 1877	1514		0488		0601	4270	- 2066	- 1505	0411	
150.000			.2989	. 1451	.0595	1419		. 1859		- 2502	6613	5357	4275	2692	
150.000			. 1692	.0820	\$. 1419		.5622	.2393	5246	5837	5227	2355	0874	
152.000 155.000 159.000								.5662	2+07	8314	5811	5684	2021	0511	
180.000	1.098↓	.2548	₩.097	.0730	. 0280	. 1443	- 20g	.4565		7126	6038	5629	1914	0121	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
. 000	.2073	. 1553		0576	1545	3155	4379		0850	1256					
70.000 90.000 105.000	25.4. - 40.4.	7261	. 1017 1748 0528 010*		2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2806 1817 2365 2770	4644 1393 1808		1360	1313			,		
110.000 120.000 135.000	3719	2687		1235				2994 2384			2				
	2595	2213	0156 0156	2785		2000	2580 2:06						,		
	1619	1131	. 0835	.3+17											

DATE 10 FEB 76	97. 83		TABULATED		PRESSURE DATA	TA - 0A148	_	AMES 11-073-1	÷					PAGE	20
				AM	AMES 11-07	-073(0A148)	-140A/B/C/R	8	FUSELAGE			(XEB	(XEBB16)		
ALPHA (5)	n	11.928	BETA (2	2) =	.182	MACH =	.90000	σ	. 599	9.65	٩	• 1057.6	S RN/L		3.5745
SECTION	(1) ORBITER	ter fuselage	LAGE		DEPENDENT	ENT VARIABLE	ABLE CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	. 1580	.1660	.1770	.2040	2510	.3010	.3780	.4970	574
PH1 20.000 40.000 55.000	1.1073	. 9322		.3393 .3357 .3328 .3468	.2279 .2104 .8295 .1453			.0780 .0707 .0707 .0784		. 0454 . 0301 . 0015	. 0550	.0546	.013	.1537	. 2355
70.000 90.000 170.000		.4197		• • •		• • •		0185 0027 1422		- 1283 - 2139 - 3+32	5274 6493 7371	2866 2901 4287		0866 0720 1345	
151.000 151.000 162.000 165.000			. 1600	.0917	851J.			.5187	. 1679 . 1870	7168	5873	5278	1891	0502	
180.000	1.1073	.2466	. 1202	. 0685	. 0250	. 1582	.6108	4164.		7939	6004	5345	2016	.0005	
X/LB	.6520	.7290	.7790	.8210	.8730	.9210	.9600	0666	1.0180	1.0460					
PH1 .050 .00.007 .00.009 .00.009 .00.009	.2121 .2246 4673 3515	. 593 - 7367 - 5960	.0734 .0970 2:59 1232	0538 0297 0871 0497	- 1498 - 1910 - 3134 - 3400 - 4320	3073 2833 3277 3860 4922	4394 4455 1931 2057	į	-, 1036 -, 1085	1283 1291					,
135.000 135.000 150.000 165.000	2721 1550 1550	2990 2116 1076	0072 .0109 .0359 .0823	.0787 .2373 .3746	4496 4188 3750 1489	4937 4192 4018 3212	2574 2734 2645 2083	2.12.1 183.1							
ALPHA (5)	k	1.917	BETA (3)	. 	.273	MACH	.90000	ø	- 599	599.65	a .	1057.6	S ROVIL	•	3.5745
SECTION (1) ORBITER	ER FUSELAGE	-AGE		DEPENDENT	INT VARIABLE	BLE CP								
X/LB	. 0000	. c380	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	93.0	.3010	.3780	0.794.	.5746
PH1 .000 20.050 40.050	1.0881	.9135		3315 2887 2415 5001	.2113 .1707 .1413	.0933		.0706		. 0583 0583	. 1220	.0508	.0300	. 1787	505. 8815.
76.059 90.009 120.000		.2555	2330 2330 2183 2471.		0126 0181 0266	0003		0848 0609 0753		1757 1757 2830 4331	5993 7217 6718	- 4049 - 2472 - 3572	- 229. 	1291 0931 0660	
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PAGE				.4970	0077	.0053	0153			
	316)			.3780	1988	2209	2263			
	(XE8816)			.3010	5244	5438	5443			
				.2510	5915	6022	6068			
				.2040	6182 9803	9767	6800	1.0460		
-	USELAGE			.1770	. 0680	. 1033		1.0180	. 0838	
ATED PRESSURE DATA - DAINB (AMES 11-073-1)	AMES 11-073(CA148) -140A/B/C/R ORB FUSELAGE			. 1660	.3921	8001	.4827	.9990	. 3481 . 2481	
3 (AMES	-140A/B/(JLE CP	.1580		•	.580*	.9600	. 4639 . 4653 . 4653 . 5834 . 4572 . 5374 . 3576	
1 - 0A146	CA148) -		DEPEND' I VARIABLE CP	.1120	.1175		.1450	.9210	3171 3233 3787 5143 5632 4762	
SURE DATA	11-073	4.273	DEPEND	.0700	0133		.0121	.8790	1.2986 1.3451 1.3451 1.5092 1.5248 1.5248 1.4415 1.995	
TO PRESE	AMES	u		.0460	.0679		.0653	.8210		
TABULAT		BETA (3)	ER FUSELAGE	. 0230	. 1219		.1118	.7790		
				SECTION (1) ORBITER FUSELAGE	.0080			7615.	.7290	. 1598 7524 5994 1429 1430
76		= 11.917	1) ORBITE	.0000			1.0881	.6520	.2086 .2131 .2131 3466 3466 2254	
DATE 10 FEB 76		ALPHA (5) =	SECTION (X/LB	PH1 140.000 150.000	162.000	180.000 174.000 180.000	X/LB	PH1 - 000 - 000 - 000 - 000 - 000 - 110 - 000 - 125 - 000 - 155 - 15	

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DATE 10 FEB	97 E		TABULATED	-	PRESSURE DATA		18 (APES	- 0A148 (APES 11-073-1						PAGE	545
٠		ţ		AM	AMES 11-073(0A148)	\$(0A14B)	-140A/B/	-140A/3/C/R ORB FUSELAGE	FUSELAGE			(XE8817)	317.)	OS AUG	. 57
	REFER	REFERENCE DATA	Z.				*				٠	PARAMETRIC	IC DATA		
SREF . 2 LREF . BREF . SCALE .	2690.0000 474.8000 936.0680 .0300	SO. FT.	ZINZ ZINZ	375	076.6800 IN. .0000 IN. 375.0000 IN.	828				585	RUDDER = BOFLAP = R-ELVN =	0000	SPOBRK L-ELWN MACH		55 000 000 000 000 000 000
ALPHA (1)	= -4.112		BETA (1)	7	-7.854	MACH	+896€.	ø	8	595.26	۵.	- 23cú.4	FBN/L		4.8216
SECTION (1) ORBITER FUSELAGE	R FUSELA	IGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	078¥.	.5740
. 990	1.0083	132		2150	2269			1789		-, 1503	30	198	.0790	- OFFR	1070
20.000 1.000				2364	2865	2857		- 2462		2058			}		
55.000			.0180 .2756	2255 .0576	- 3004 - 0251	3142		3760		3340	2692	- 1991	1727	1507	1526
70.000 90.000		7707		.2330	1501	. 0843		0465		- 1280	1337	0018	.0599	.1065	
120.000				1000 A.	6年	.3197		. 1909		1812	1863 1798	0403 1625	. 9056 . 0056	25 25 25	
150.000			.5747	.4286	.3498	.3500	•	.5637	200	1871	3117	1025	0365	0056	
162.000							•		5759	į	į	į	į	i	
169.600						,	1	.5725		t 000 -	- R344	<u>.</u>	, ncn		
180.000	1.0083	7017.	SI ##.	3443	.2791	.2918	÷669.	.3654	•	-1.1714	2227	1319	0723	0395	
K/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
Æ															
000 . 040 .		1492 		· 5.2	2265	2618	8 2 2 3 3 4 3 4 4 5 7		1312	1963					
70.000	.022	. 00. 00.		. 1817	.0365	.0163	0630 0630		1873	- 1340					
105.000	. 0+82		. 1762 1762	.3354	0033	0430	-,1167								
110.000	0.250	1100	Č		•	:	i	2831							
135.000	. ביי	. 6011		2005 2005 2005 2005 2005 2005 2005 2005	. 1019	1113	- 147	2048							
	(5) (6) (6)	9260	27.10	.3399	0815	69+0	283								
180.000	0169	.0426	.1757	.3117	Ē	ייבות	י גמני							•	

243		4.8216		.5740	0712								4.8215	03/6	0635	0792
PAGE		•		.4970	0467	.0549 .0353	7110.	. 0123	D008					0.65	0428	0725 .0572 .0108
	817)	# RN/L		.3780	0639	.0315 .0115 0070	0175	0275	0348				FBV/L	2780	0511	0696 0107 0364
	(XEBB17)	≈ 2386.4		.3010	3826	0382 0817 1999	0912	0976	0979				- 2386.4	0102	07Z7	0951 0692 1057
		۵		55.	1115	1813 2201 2277	2767	2073	1997				۵.	¥.	1089	1597 2195 2651 2855
		595.28		.2040	1378 1702 2733	2031 1931 2409	4089	9230	-1.1448	1.040	1843 1582		595.28	Call	1366	- 2176 - 2262 - 3653 - 3467
-	FUSELAGE	# 53		.1770			.1568		60.5	910.1	1212		*	1771		
AMES 11-073-1	gg B	a		. 1660	1610 2085 3083	1857 1039 0797	.5031	.5601	4634.	0666.	2867	- 2805	o	1660	- 1597	- 2501 - 2091 - 1898 - 1958 - 0506
-	-140A/B/C/R	.59694	BLE CP	. 1580				.6955	0090	. 2000	2366 0871 1326 1836	1969 1774 1549 2048	.59694	BLE CP		
A - 0A148	(0A148)	MACH	NT VARIABLE	.1120	2427 2622	1454 .0003 .0382 .2313	. 3248		. 7221		2638 2075 0197 0858	1853 1184 1051 0985	# #WCH	NT VARIABLE	716	- 2631 - 1694 - 0757 - 0596
PRESSURE DATA	AMES 11-073(0A148)	3.638 M	DEPENDENT	.0700	2094 2467 2629	0751 .0533 .1205 .7725	.3295	,	411E.	06/9.	2280 2328 0121 0708 1663	2262 1677 1209 .0575	.201 M.	DEPENDENT	2040	2392 1118 0379 .0054
-	AME	2) = -3		.0460	1917 2058 1994	0033 .1317 .2142 .3661	.4186	 - 	3872	0100	2465 2467 1254 1627 2655	.4347 .4347 .4237	#	0460	.1763	. 1943 - 16821 - 0309 - 0341
TABULATED		BETA (2	AGE	.0230	1907 1805 .0075	1981 .3357 .4279 .7523	.5410	1	+80+ -	06//	1858 1996 .0348 .0874	. 2896 . 2896 . 2856 . 2550 . 2371	BETA (3)	AGE . n230	- 1829	- 6251 - 175 - 175 - 225 - 3026 - 4173
		-4.086 B	110RBITER FUSELAGE	.0080	.1723	.6025		1	.7332)	1464 0355 .0151	.1112		1109BITER FUSELAGE	1747	. 4471
97. 81.		u		.0000	1.0487			1	1.0487	1300	. 1913 - 0075 - 02750	. 0503 . 0503 . 0443 . 0286	= -1.079		1.6600	
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	PHI .000 .20.000 .000	55.000 70.000 90.000 120.000	150.000 151.000 162.000	165.000 169.000 174.030	180.000	אירם	20.000 20.000 20.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (1)	SECTION (9H9 0000	95.000 95.000 90.000 90.000

PAGE 244				0428 0264		. 0209	.D162				* 4.8216		042. 0784.	• •	325	
-				3780		. 0214 .0					FW/L		3780 .4g	• •	55 . 0442 553. 5553 5753	,
	(XEBB17)				i	, M	40193				*		•	0597	0075 0255	
	5			3010	0924	09	083¥				- 2386.4		.3010	0817 0697	0858 1244 3018	1152
				0.55	. 2481	1952	1850				•		.2510	1131	- 2450 - 2963 - 2400	
				.2040	49.64 17.74.19	9250	-1.1259	1.0460	1756				.2040	- 1428 - 1475 - 1867		4330
-	FUSELAGE			.1770	.0327	**************************************	•	1.0180	1178 1356		* 595.28		.1770			
AMES 11-073-1	C/R ORB			. 1660	.¥125	.5228	.5141	.9990		. 2468 - 2468	ø		. 1660	1664 1750 2144	2419 2766 1937	. 2929
_	-140A/B/C/R		BLE CP	. 1580			₹089.	.9600	- 2318 - 2318 - 1022 - 1483	2562 2171 1941 1948	.59694	LE CP	. 1580			
IA - 0A148	3(0A148)		DEPENDENT VARIABLE	.1120	. E778		.3373	.9210	2680 2092 0555 1170	2680 1828 1758 1801	MACH .	IT VARIABLE	.1120	2102 2020	1389 1515 .0230	.2032
PRESSURE DATA	AMES 11-073(0A148)	.201	DEPENDE	.0700	.2871		.3266	.8790	2283 2286 0581 1252	3321 2560 1898 0439	₩ 075.	DEPENDENT	.0700	2180 2335 2292 1614		.2188
	WY.	3) =		.0460	.3760		.4010	.8216	2484 2406 .0801 .0928	.4602 .4602 .4725	# -		.0460	1883 2031 191		.3135
TABULATED		BETA (AGE	.0230	1852		.4935	.7790	- 1856 - 1859 - 0017 - 0546	. 1559 . 1586 . 1586 . 1586 . 1585	.	V GE	. 0230	2007 1905 0796 .0231		0,04.
		-4.079	TER FUSELAGE	. 0080			.7292	.7290	1429 0580 0102	. 2416 . 1108	196 BK	110FBITER FUSELAGE	. 0080	***	.2761	
FEB 76			(1) ORBITER	0000			1.0600	.6520	1114 1645 0237 .0102	.0195 .0517 .0517	· · · · · · · · · · · · · · · · · · ·	1105911	. 0000	1.0393		
DATE 10 F		ALPHA (1	SECTION	хлв	PHI 140.000 150.000 151.000	165.000 169.000 174.000	180.000	X/LB	PHI .000 70.000 90.000	120.000 135.000 155.000 165.000	ALPHA (1.)	SECTION (X/LB	711 .000 20.000 40.000 55.000	90.000	150.000

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PAGE 245 (XE8817)			.3780 .4970 .5780	0319 .0000				.4 RN/L = 4.8216	RN/L	.4 RN/L = .3780 .4970	.4 RN/L = 4.	.4 RN/L = 4. .3780 .4970 07730576 -	.4 RN/L • 43780 .497007730676041904780359 .019312790677	.4 RN/L • 43780 .4970077306760419047806770369 .010312790677	.4 RN/L • 4. .3780 .4970 07730676 - 04190478 - .0369 .0103 16770571	.* RN/L	.* RN/L • 43780 .4970077306760419047812790478107505771095 .010310770711	.4 RN/L • 43780 .497007730676041904780359 .01031679067710770711
JXC)			.2510 .3010	19390948				P = 2386.4	•	. 8310	.2510 .	. 2510 . .1344						
) JSE1 43E			.1776 .2040	-1.1212	1.0180 1.0460	12291767 12591629		- 595.28		7	. και	X .	X .		X .	*	*	**
8 (AMES 11-073-1)			. 1660	.4902	0656		- 2672	0	0	0 1660	0.1660		. 1660 - 1830 - 1825 - 1989 - 2880 - 3476	. 1660 . 1830 . 1825 . 1989 . 2526 . 3526 . 3476	. 1660 . 1825 . 1889 . 1989 . 2504 . 37.75 . 37.75	. 1660 . 1830 . 1825 . 1989 . 25880 . 3526 . 3476 . 3478 . 3715	0 1660 1.1855 1.1826 1.1826 1.3526 1.3776 1.3178 1.3178	
B (AMES		BLE CP	.150		.9600	2500 2119 160 1682 2208	.3184 .25577 .3410 .2048	.59694	.59694 BLE CP	.59694 BLE CP	.59694 BLE CP .15.30	.59694 BLE CP 15.00	.59694 BLE CP 15.30	. 59694 BLE CP . 1530	. 5969* 8.E. CP 15.30	81.E. CP. 15.30	. 5969* 94. CP 15.30 . 15.30 . 15.16	38694 C. 16.30 18.31 18.31 18.30 18.
.		DEPENDENT VARIABLE	.1120	.3214	.9210	2656 2003 0877 1567	3579 2595 2721 2639	MACH	¥	ACH # NT VARIA	ACH NI VARIA	ACH ** NI VARIA . 11202023	ACH # 1120 1120 2116 2023 2953 1953 1120 .	. 1120 . 1202 . 2023 . 2023 . 2148 . 1953 - 2367 - 1112	ACH # 1120 2116 2123 2367 2367 2367 2367 1112 1112	. 1120 . 1120 . 2023 . 2023 . 2116 . 1953 . 1953 . 1112 . 0997	. 1120 . 1120 . 12023 22163 1953 112 112 0997	. 1120 . 1120 . 12023 . 2023 . 1953 . 1953 . 112 . 0997 . 9210
1. 3URE DATA - 0A1	4.270	DEPENDEN	.0700	.3116	.8790	2312 2308 1018 1685	4555 3628 2961 1538	8.352 MA	JEPENDEN	352 M DEPENDEN . 0700	352 M DEPENDEN . 0700	352 MA 200 0EPENDEN . 0700 . 0700	352 MA DEPENDEN . 0700 	DEPENDEN DEPENDEN . 0700 2425 2394 2049 1989 1989 1233 1233	352 MA DEPENDEN . 0700 	252 MA DEPENDEN 0700 .0700 .2392 .2394 .2049 .2049 .1093	DEPENDEN DEPENDEN . 0700 . 0700 . 2392 . 2394 . 2394 . 1989 . 1093 . 1093 . 8790	252 HA DEPENDEN . 0700 . 0700 . 2392 . 1989 . 1989 . 1233 . 1093 . 8790 . 8790
ED PR. 3			.0460	.3841	.8210	2515 2335 .0349 .0348	.3103 .4809 .4832		u	. 0460	.0460	. 0460 . 0460 					.0460 .0460 .0460 .2011 .2011 .1516 .0071 .2137 .3268	
TABULATED PR	BETA (4)	30	.0230	.4843	0677.	1858 1780 0386 .0033	. 1695 . 1695 . 2055 . 2096	BETA (5)	-	0230	0230	0230 0230 22159 2138	C 5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	0230 0230 2138 2138 2138 0132 0132 0132 0132 0132	(5) 0230 0230 2138 2138 1321 0608 0132 0415 1521	(5) 0230 0230 1321 0508 0132 0615 1521 1521 1521	(5) 0230 0230 2138 2138 2138 0132 0415 1521 1521 1521 1521 1521 1521 1521 1	20030 0230 22138 22138 22138 0132 0415 1521 1521 1521 7790
		R FUSELA	.0080	.6976	.7290	1458	0130 .0635		OI BE R FUSELA	01 BE R FUSELA .0080	R FUSELA .0090	01 BE R FUSELA .0080	R FUSELA .0080 .1220	R FUSELA .00800 .1220	01 BE R FUSELA .0080 .1220	R FUSELA .00800 .1220 .0969	R FUSELA .0080 .1220 .0969 .7290	R FUSELA .0080 .1220 .0969 .7290
3 7	-4.086	1) ORBITER FUSELAGE	. 0000	1.0393	.6520	- 1193 - 1415 - 0419 -	0167 - . 0262 . 0265 . 0265	4.101	• 8		.0000 .9886			. 0000 . 9886			. 11.4-1.10 11.0000 . 0000 . 9886 . 6520	31.4
DATE 10 FEB	ALPHA (1)	SECTION (X/LB	PH1 180.000	X/LB	PHI - 000 -		ALPHA (1)			C - NO	2 NO 1000	- N 00000000000000000000000000000000000	- N 00000000000000000000000000000000000	- NO 00000000000000000000000000000000000	- NO 00000000000000000000000000000000000	- N 00000000000000000000000000000000000	- N

	TABU	JLATED PRESSURE DATA - CAIVB (AMES 11-073-1	RESSURE DATA - DATE	A - 0A140	8 (AMES 11-	11-073-	·1) Fusel Age			(XE	(XE8817)	PAGE
BETA	7		LS 11-U/3 8.352		-1404/8/	5	r Usel Aue			ואב		
SECTION (1) ORBITER FUSELAGE	႘		DEPENDE	DEPENDENT VARIABLE	BLE CP							
.7290	.79	90 .8210	.8790	.9210	.9600	3666 .	1.0180	1.0460				
.0790	0830 0575 0198	0 .0008 50228 8 0003	1416 2147 3567	1099 1858 2502	1316 1868 2429	c c						
0784 0125 .0345	0340 .0608 .0970 .1149	01269 8 .1460 0 .4271 9 .3515	5957 5089 4623 2668	4502 3609 3941 3606	3851 3246 3031 2103	2974 2974						
BETA	2	1) = -7	-7.892 M	MACH =	.59642	o	# 59	594.20	۵.	- 2386.3	3 RN/L	بر •
SECTION (1) ORBITER FUSELAGE	냂		DEPENDENT	NT VARIABLE	BLE CP							
	. 0230	0 . 0460	.0700	.1120	. 1580	. 1660	.1770	.204r	955.	.3010	.≅780	0764.
3200 -	0660 0258 .2032	01146 80975 0435	1422 1719 1305	2004		1416 1784 2221		1212 1570 2050	1013	0744	0535	1259
			. 1982 . 2386 . 2866	. 1317 . 1516 . 2800		0049 .0212 .1756		- 0980 - 1505 - 1759	1359 1629 2275	0240 0542 2175	.0659 0661	.0500 .0380 0+83
	.4468	3180	.2393	.2618		.5138	.1837	9774	4037	-, 1579	0832	2598
					7	.5064	•	-1.1077	2962	1678	094B	063t
5774	.3151	#1 *S	. 1820	.2067		.3002	•	-1.3573	2686	1659	0960	0689
.7290	.7790	0 .8210	.8790	.9210	.9600	9990	1.0180	1.0460				

-.0316

-.1182 -.175 -.1132 -.1457

. . 2550 . . 1942 . . 04.18 . . 0843

-.2062 -.2051 .0343 -.0049

- 1448 - 1439 - 0344 - 0888 - 1339

> -.075± -.0250.-

-.0648 -.1192 -.0860 -.0435

-.0936

-.2716 -.2044

> -.1407 -.1605 -.1450

> -. 1256 -. 0998 -. 0844

-.1576 -.1507 -.1569

.4873 .4226 .2470

. 2366 . 2366 . 2251

-.0010

-.0789

40.000 70.000 90.000 105.000 110.000 125.000

.5740

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AMES 11-373-1)
- 0A14B
IABULATED PRESSURE DATA
DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				4.8139	•	574G	0218	0358											
				•		0.64.	0170	Ott	.0205	0178	0301	0294	0282						
				TAN T		3780	0374	0520	0062	0515	0627	0610	0610						
				. 2386.3		.3010	0565	0682	0663	0942 2255	1406	1397	1325						
				• a.		518.	0889	1179	1846	2175 2664	3525	2688	2321						
		1.0460		594.20		.2040	1108	1288	1399 1696	2697	3407 5165	-1.0992	-1.3264	1.0460	1764				
		1.0180		*		.1770					9	67.	·	1.0180	1130				
)666·		ø		. 1660	1199	1448 1824	0918 0769	0593 .0855	.4638	į	.5014 .4034	ე666.			2130		
	LE CP	.9600	2063	.59642	LE CP	.1580							.6410	.9600	2342	0783 1271 1808	1797	1648	•
	DEPENDENT VARIABLE	.9210	0395	MACH =	DEPENDENT VARIABLE	.1120		1611	0239	2772	.2530		.2390	.9210	2482	. 0168 . 0800 342	.1798	1395	1
-7.892	DEPENDEN	.8790	1189	-3.858 M	DEPENDEN	.0700	1198	- 1421	0459	1374	.2357		.2182	.8790	2087	0140 0587	2301	- 1793	, 061
		.8210	.2749	•		.0460	0837	0795	1231	2386	.3092		.2789	.8210	2054	1891. 1818. 1496.	.3573	3145	.3658
BETA (1)	135	.7790	.1798 .1398	BETA (2)	AGE.	. 0233	C460	0032 1756	3167	16403 14403	. teg.		.3561	.7790	- 1454	1451 0141 .0516	1981	8.00 8.00 6.00 6.00 6.00 6.00 6.00 6.00	7.77. 4.202.
.08+ BE	R FUSELA	.7290	.0078	±60.	R FUSEL	. 0080	Ž			.5982			.5965	.7290	0964	1158	.0208	.0622	. 0649
0.	1) ORBITER FUSELAGE	.6520	0456	0.	1) ORBITE	. 0000	1 0739	640.1					1.0729	.6520	0565	1012 1188 0712	0º32	0053	0042
ALPHA (2)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	1H.	20.000	55.000	90.000	140.000	151.000 167.000 155.000	169.000	X/LB	PH1 .000	40.000 70.700	110.000	135.000	165.000 180.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

4.8159		5740	0210	0139								4.9159)	5740	9235	.0012	
FBV/L		0.4970	00%	0233	.0050	0143	0031	0136				#		04970	01%	0194	000% 0055 0233
i		3780	0280	0299	0252	0477	0458	0444				FRVL		3780	0337	0227	0394 0480 0575
- 2386.3		.3010	0482	0418	0912 1164 2367	1273	1231	1119				- 2386.3		3010	064	0444	1046 1731 2588
۵		0187	ı	0940	2215 2534 2972		2416	2212				a		.2510	0898	0929	2507 2903 3382
594.20		.2040	1020	1763	3250 3256 3542	5610	-1.0764	-1.2979	1.0460	1730		594.20		3040	1133	- 1434	
ii "		.1770					.0272		1.0180	1170		.		0771.			
ø		. 1660	1157	1579	1465	.3686	54845	0544.	.9990		2303 2303	o		. 1660	- 1796	1520	2118 2341 1594
. 59642	WELE CP	.1580					. (. B	.9600	2470 2231 1024 1506 2025	2308 2195 1995 1882	.59642	LE CP	.1580			
MACH =	ENDENT VARIABLE	.1120		125 0765		.2144		.2521	.9210	2529 1887 0613 1215	2490 1969 2049 2034	MACH ==	IT VARIABLE	.1120	1489	- 1343	1008 1113 .0276
. 198	DEPEND	.0700	1157	1121	. 0341 . 1221	. 1953		. 2293	.8790	2090 2064 0710 1367	3160 2737 2331 0849	4.249 M	DEPENDENT	.0700			0964 0709 0172
3) =		. 0460		0555	. 0807 . 1197 . 2226	.2814		. 2985	.8210	2115 1988 .0651 .0792	.1698 .3596 .4170	n		. 3460			0210 0009 .1127
BETA (AGE	. 0230	0242 0045	.192 .2240	.2151 .3151 .3749	. 3865		.3756	.7790	1380 1344 0478 .0171	.1492 .2125 .2254 .2133	BETA (4)	3	.0230			. 1506 . 1853 . 2572
170.	1)ORBITER FUSELAGE	.0080	.3662		.4466			. 5907	.7290	1454 1454 0794	.0697	38 89D	R FUSELAGE	.0090	.3384		.2748
		.0000	1.0815					1.0815	.6520	0542 0763 1332 0833	0338 .0015 .0090	# 6	1) CHBITER	0000	1.0595		
ALPHA (2)	SECTION (X/LB	PH1 .000 20.000	55.000 25.000	90.000 120.000 140.000	150.000	162.900 165.000 169.000 174.000	180.000	x/re	PH1 . 000 . 000 90. 000 105. 000	135.300 135.300 150.000 165.000	ALPHA (2)	SECTION (X/LB	20.030 20.030	55.660	76.000 96.000 126.000

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PRESSURE DATA - OA148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB FUSTLAGE

	1	0x72.							4.8159		.5740	9402	.0050			
		. 0764.	0288	0233	0321				•		0.64	029	028+	0080 0106 0393	0618	0592
		.3780	- 0530	. 6550 -	- 1020				RNA		.3780	0458	0298	07-70 82-90-1 07-70	0933	0971
		.3010	1298	1279	1253				= 2366.3		.3010	0768	0562	1185	1554	1627
		55.	2851	2458	2435				О.		920.	1056	1143	2645 3092 3724	2979	2671
		.2040	4803 6211	-1.0807	-1.2992	1.0460	1766		594.20		Ohûc .	1273	1581	2000 2000 2000 2000 2000 2000 2000 200	6790	-1.1086
		.1770	1437	0901		1.0180	1319 1319		8		.1770					. 2383 2383
		. 1660	.2559	.3979	.4138	0666.	- CC-	- 2531	σ		. 1660	1435	- 1539	. 2530 - 2530 - 2830 - 2830	.1153	.3185
	BLE CP	.1580			.5591	.9600	2476 2123 1306 1708	2965 2608 2486 2057	.59642	BLE CP	1590					.497:
	DEPENDENT VAR! ABLE	.1120	1941.		.2355	.9210	2564 1972 1028 1640	3315 2732 2523 2943	MACH	DEPENDENT VARIABLE	.1120	623	1423		.0580	
.249	DEPENDE	.0700	.1411		. 2091	.8790	2143 2171 1230 1917	4389 3850 3359 2045	.308 m	DEPENDE	.0700	\$ 31	- 1613	. 1583 1.583 1.083 1.083	.0530	
<i>*</i>		.0460	.2273		.2686	.8210	2222 1993 . 0052 . 0096	.0879 .2834 .3647	8 = (.0460	4460	9611	1082 1103 1082	.1508	
BETA (4)	AGE	. 0230	.3158		.3654	.7790	1425 1306 0820 0364	.0506 .1576 .1791 .1789	BETA (5)	AGE	.0230	0593		. 0307 . 0307 . 144 . 144	.2131	
. 068 84	ER FUSEL	.0080			.5584	.7290	1764 1764 1000	0459 .0370	.061 6	ER FUSEL	. 0080	3176		. 0923		
•	1.10RB1TE	.0000			1.0595	.6520	0549 0653 1461 0917	0561 0079 0098	•	(1) ORBITER FUSELAGE	.0000	1.0086				
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 14C.000 150.000	165.000	183.000	X/18	PHI .000 40.000 70.000 90.000	1.0.000 1.20.000 1.35.000 1.50.000 1.65.000	ALPHA (2)	SECTION (X/LB	PH1 .000	€0.000 40.000	75.000 70.000 90.000 120.000	150.630	151.000 162.000 163.000 14.000

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				AMES	AMES 11-073(0A148)		-140A/B/C/R	8	FUSELAGE			(XE	(XE8817)		
ALPHA (2) :	- .	.061 BK	BETA (5)		8.308					••••					
SECTION ()	130RB1T	110RBITER FUSELAGE	ige.		DEPENDENT	NT VARIABLE	BLE CP								
x/LB	0000.	.0080	.0230	.0460	.0700	.1180	1580	. 1660	.1770	.2040	50.	.3010	.3780	£970	5740
PH1 180.000	1.0086	.4872	.3185	5115.	. 1634	.1951		.3192	·	-1.3044	2735	1661	1014	0751	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666	1.0180	1.0460					
PHI . 300 . 70.000 90.000 . 101.000	0663 0573 1486 1033	0950 1887 1280	1432 1280 1232 0727	2219 1947 0265 0337	2113 2189 1516 2290	2583 1981 1170 2018	2469 1892 1371 :020		1200	1751					
• • • •	0759 0537 0580 0676	0831	0164 .0630 .0908 .0998 .1418	1324 .1185 .3652 .2975	5673 5118 4913 3500	4177 3566 4039 3904	3472 3128 3080 2109								
PHA (3) =	*	. 005 BE	BETA (1)		-7.903 MA	MACH .	.59616	0	- 59	593.73	•	- 2386.3	S ROVL	•	4.8137
SECTION ()	1.10AB1_E	ER FUSELAGE	¥		DEPENDENT	IT VARIABLE	A.E. CP								
:/LB	.0000	. 3080	.0230	.0460	.0700	.1120	. 1580	. 1660	1770	.2040	0165	.3010	.3780	0.4970	STRE.
PH1 . 000 . 05	.0344	4984.				1128		0952 1086		6080°-	0705	0464	0170	.0192	.0219
6.98. 36.988			8746. 1981.			0301		1028		- 1038	0568	0101	.0023	.0063	. 020
70.909 95.390 120.000		.6970	524 5224 5600 5600	3213	2335 2335 2335 2388	1472 1667 1513.		.0302 .0302 .1396			1418 1707 2793	0463 0856 3026	01:3 0299 1709	.0020 0125 1691	
000-1			3278	.2055	.1426	.1824		.4653		5707	4804	2071	1261	1074	
								0244.	5873	-1.2747	3458	1988	1192	0351	
80.030 I	.0344	£044.	.2049	.1362	1780.	.1308	9909.	.2312	•	-1.4981	3045	1790	106¥	0853	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PH1 .000 40.600	0033	0389	0946 -	1724	1942	2413	2199		1150	1718					

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(XEBB17) AMES 11-073(0A148) -140A/B/C/R OR3 FUSELAGE -7.903 = BETA 4.005 K. PHA : 33

57.0 928 C+13 4.8137 -.0545 -.0483 0764. 5410. -.0261 -.0278 -.1026 .0278 -.0531 Z .0118 -.0435 -.0550 -.1251 -.0817 -. 1446 -. 0719 3780 -.0893 -.0027 2386.3 -.0841 -.1160 -.2780 .3010 -. 1632 .0008 -.0273 -. 1730 -.0565 -. 1956 -.2229 -.3062 -.2690 35.0 -. 3086 -.0470 -.4187 -1.4726 -.0558 -.0741 -.0883 -.1021 -.2279 -.2908 -.4011 -1.2492 .2040 -.1785 -.1378 .9990 1.0180 1.0460 1.0460 593.73 1.0180 -.1087 170 .05% .05% -.07%7 -.0783 -.03%9 -.0538 -.0538 9990 -.2082. -.2097. . 1660 5244. -.2680 .4206 3284 O -.1780 -.2336 -.2226 -.0635 -.1295 5896 -.1461 -.1881 -.1575 -.2080 .1580 .9600 .9600 .59616 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0797 -.0256 .0430 .0753 .0915 -.1821 -.1630 -.1621 . 0339 -. 0362 -. 0809 -.1379 -.1340 -.1157 -.0584 .9210 . 1120 1748 . 1622 9210 MACH -.0295 -.0406 -.0406 -.0157 -.1299 -.1399 -.2446 -.2367 -.2319 -.1795 -.1860 -.0098 -.0647 -.1403 .0%20 .0055 -.0660 -.1881 -.2006 -.2221 -.0932 .1235 .0700 .8790 . 1338 .B790 = -3.866 -.1733 -.1583 .1149 .1508 .3766 .3366 .2181 .5164 .3502 .1288 .0460 . 1802 .8210 .8210 .1700 .2192 .3673 . 2282 .0208 .0452 .0971 .2218 .2318 .2337 .2337 .2068 BETA (2) -.0964 -.0877 -.0559 -.0159 . 1697 . 2210 . 2210 . 1354 . 1893 . 1846 .0230 3120 .2329 .1790 -.0069 .0490 .0938 .1558 .3077 .3943 .4111 .4187 .3889 . 130 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -. 1818 -. 1245 -.0393 -.1458 14457 .7290 .0080 .5283 5645 .7290 -.0400 -. 082× -.0137 -.0128 · 4.010 -.1329 - 1539 .0031 -.0038 -.2316 -.1626 -.1024 -.0813 -.0843 -. 1948 1.0645 .6520 .6520 .0000 1.0845 M.P.H.A. (3) 70.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 PHI 70.000 90.000 117.000 135.000 185.000 1865.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.00000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20. X/LB

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AMES 11-073(0A148) -14CA/B/C/R ORB FUSELAGE

				4.8137		O¥CO.	. 3E.	.0574								
						0784.	.0353	.0201	0387 0387		0345.	2365	0329			
				1/1/6			(I) (!)	£3: .	₫; ₫. Ÿ; ₫.;	7	H H	#:	99.			
				2385.3		300	g: 0: -	3730	900		. 1463	. :	1305			
				•		.2510	0438	0516	2306	.3218	3530	2747	2520			
		1.0460		593.73		.2040	0632	0734	- 1438 - 2039 - 2041	1.4888 1.	634B	1.1993	. 4266	1.0453	# 19 1	
		1.0183		= 593		.1770						- 0390	-1	1.0:80	2 (0) 3 (1) 4 (1) 1 (1)	
		ე666.		o		. 1650	0708	07.6 6.7.6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0216	. 3687	680	.3790	3666.		7
	E CP	.9600	1945	. 59616	LE CP	.1580						Ç Ç U	ABOC .	.9600	1.20000 1.100000 1.14600	1.2051 1.2051 1.8051
	DEPENDENT VARIABLE	.9210	1354	MACH #	OCPENDENT VARIABLE	.1120		0351	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.1157	<u>+</u>		.:832	0:25.		- 2356 - 2027 - 2139 - 2139
-3.866	DEPENDEN	.8790	0600	.197 MA	DCPENDEN	.0700			B. 40.0		90.:		.1302	.8793		ញ់ + ១ M ល្យាយ ប បាល់ ប្រ M ល្ប 1 1 1 1
1 3		.8210	.3033	u		.0460	34. 150	មួយ មួយ មួយ ៖	1.057	3 8	นอกน.		ម្ចា () ()	0126		0.00 m 0.00 m 0.00 m
BETA (2)	ų	.7790	.: 988 1.188	BETA (3)	30	.0230	5 1	1. 55 M. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ម្ចាស់ មួយស្វា ស្វាស្វាស្វាស់	٧ ١ ١	. מנוני		13 13 13	in I	0 (1 · · (1) · · · · · · · · · · · · · · · · · · ·	common to the co
	I ORBITER FUSELAGE	C857.	ម្រ វ	. 038 BE	REUSELA	.090	8 8 8 8		in 3				80 m	0 10 1	## M (# C) (t Ch (2)
= 4.010	110RB1TE	.6520	## ## ## ## ##	t.0	13CABITER FUSELAGE	3000.	1.67+0						1,0740	C) () () ()	# 11 (1) (2) for the C (1) * (C (1) 1) (2) (1)	th sph +
ALFHA (3)	SECTION :	X/LS	165.000 160.000	ALPHA (3)	SECTION: 0	X/LB	120 100 100 100 100 100 100 100 100 100		្រក់ កំណត់ កំណត់ កំណត់) ()) ()) ()	(20) O ((20) 3 6 3 7 , 1 7 , 1 10 , 1	0 .† .*	Topogram) 11 V (1	

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S	į	4.8137		.5740		4.8137		5760	. 0426
PAGE	1	•		.¥970	. 0438 . 0438 . 0438 . 0438 . 0438	•		.¥970	.0151 0121 0503 0399 0409
				.3780	0049 0730 0525 0525 0525	S RRVL		.3780	0138 0338 0670 0577
	CXE	• 2386.:		3010	- 0281 - 1485 - 1485 - 1456 - 1456 - 1470	= 2386.3		.3010	0407 0743 1988 1548
	į	Q		.2510	88.55. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	۵		500	0688 1300 2752 2989 3670
		593.73		.2040	0678 1146 3720 3720 5005 14180 1678 1597	593.73		.2040	0897 1165 1582 2441 2989 4150
•	USELAGE	593		.1770	1.0180 1.0180 1.177	. 593		.1770	
11-073-1	1/R ORB F	o		.1660	7.509. 1.0887. 1.1809. 1.1809. 1.1809. 1.1870. 1.18	ø		.1660	0964 1114 1316 2057 2533 2533
- 0A148 (AMES 11-073-1	-140A/E/C/R ORB FUSELAGE	.5961	BLE CP	. 1580	.9800 .9800 .1845 .1843 .1718 .2526 .2526	.59616	RE CP.	.1580	
4 - 0A14		MACH	IT VARIABLE	.1120		MACH	IT VARIABLE	.1120	- 1010 - 1120 - 1492 - 1492 - 1444 - 0629
PRESSURE DATA	Ģ	4.242 M	DEPENDENT	.0700	. 0406 . 0539 . 0520 . 0520 . 0623 . 0623 . 0768 . 0768 . 153 . 15	8.290 HV	DEPENDENT	.0700	0588 0586 1356 1320 1375
_				.0460	6.500 6.5000 6.500 6.500 6.500 6.500 6.500 6.500 6.500 6.500 6.5000 6.5			. 0460	. 0079 - 0144 - 0516 - 0755 - 0848 - 0876
TABULATED		BETA (4)	iği	. 0230	1050 11514 11657 11657 11657 11745 1	BETA (5)	19	.0230	.0876 .0561 .0569 .0899 .0699 .1691
			R FUSELAGE	.0080	2003. 27.5 2027. 2027. 2030. 203		R FUSELAGE	.0080	.0582
æ 97.		#.0I	1) ORBITER	0000	1.0531 1.0531 1.0531 0.0070 1.1788 1.1788	+.014	1) ORBITER	0000	1.0010
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	<u>8</u>			- 3030				.2510	.02520321 .15351535
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	.1770	3217		1.0180	### ## ## ## ##	= 594.32		.1770	0270. 01870.
	. 1660	. 0928	.2761	9862. 9990		σ		. 1660	
BLE CP			8244.	.9500	. 2389 . 1413 . 2457 . 2457 . 3219 . 3056 . 3064	. 59650	LE CP	.1580	
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DEPENDE	.0700	.0018	č	.8790	1803 1979 1631 2333 3495 5071 5100 1066	891 MA	DEPENDENT	.0700	. 0381 . 0481 . 1514 . 2542 . 2542 . 2542 . 1186 . 1186
	.0460	.0793		.8210	1815 1938 0502 0597 0597 0895 7575.	. 7- =		0440	.1011 .1500 .2538 .3523 .3352 .3030 .2128
AGE	. 0230	.1375	2020	.7790	0985 0762 1043 0533 0054 .0697 .0864	BETA (1)	Э.	.0230	. 2245 . 2985 . 4795 . 5425 . 5219 . 4807 . 1860
1) CRBITER FUSELAGE	.0090		\$ 8	.7290	0362 2559 1792 1017 0298		R FUSELAGE	.0080	. 6365 . 6349
	. 0000		1.0010	.652	0041 .0078 2568 1778 1059	= 7.901	1) ORBITER	. 0000	. 3935
SECTION (X/LB	PHI 140.000 150.000 151.000	165.000 174.000 180.000	X/LB	PH1 .000 40.700 70.000 10.000 115.000 125.000 155.000 156.000	ALPHA (4)	SECTION (B ./x	PHI 20.000 20.000 20.000 30.000 140.000 150.000 151.000 162.000

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MES 11-073-1)	
TABULATED PRESSURE DATA - DA!48 (AMES 11-073-)	
TABULATED PRE	
ATE 10 FEB 76	

340 5780 弘. . 1989 4.8187 R PAGE **153** -.0710 -.0970 .¥970 -.0775 - 1067 ğ 1985 - 1989 Z .3780 3788 -. C) 38 -. 1168 7440. 7170 -.0822 -.0937 -.2211 -. 1072 - 1889. (XE8817) 2386.1 .3010 .3010 9,10. 0350 -.1-91 -.1-92 -.3586 -. 1523 -. 1801 -. 1985 -:175 . 83. -.3132 -.0049 -.2330 -.3330 -.3520 .8510 .0133 -. 28± -.4736 -.3361 .2040 -1.7023 -.0130 -.0180 -.0170 -.0853 -.1417 -.2256 -.3278 -.4596 1.0460 .2040 -1.5956 -1.3984 1.0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE -.0950 1.0180 .173 1.0180 170 -.0898 .1660 9990 .1703 -. 25399 -. 2275 -.0093 -.0125 -.0070 -.0357 -.0405 9880 .1660 .3813 3868 2666 ø -.2204 -.2023 -.0364 -.0994 -.1510 .1580 .9600 -.2142 .59650 . 1580 .9600 Pag. DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .9210 -.2115 -.1250 .0438 -.0277 .1120 -.1537 -.1581 -.1381 -.0656 -.2115 .0034 .0712 .0816 .0859 .0818 .9210 .0657 1032 .0954 MACH -.1496 -.1509 .0502 .0206 -.0415 -.2180 -.2387 -.2828 .0779 .0700 -. 1407 .8790 .0700 .0655 .0617 .1716 .1364 .1364 .1257 .0350 .0031 -3.864 -.1246 -.1005 .1691 .2225 .3860 .0460 .0462 .8210 5391 3273 0603 -.1188 .0460 .0800 .8210 1344 1669 1669 2861 2388 2388 2085 1624 .1335 1131 BETA (2) -.0420 -.0185 -.0366 .0228 .0690 .1403 .1538 .1263 . 0230 -.0345 2606 2007 4219 4423 4423 2753 2753 .0230 .7790 1858 .1056 .1790 (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0000 .0183 -.2041 .5117 .7250 -. 000 -.0080 .0273 -.1671 .6731 9882 7290 <u>979</u> -.0539 7.913 7.901 -.1456 -.1183 -.:072 . 23999 - 23999 - 2755 0000 9935 -.3336 .0000 1.0246 .6520 1.0246 .6520 .0727 ALPHA (4) ALPHA (4; 180.000 X/LB 3

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(XE8817)

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							• 2386.1		3010	.0216	. 0224	1530	3173	1748	1487	1430				
							u .		9510	.0063	0230	2492	-, 3552	6404	2961	2766				
		1.0460					594.32		2040	0053	0452	2059	. 3909	7168	-1.3308	-1.5209	1.0460	1562		
		1.0180					i i		.1770					1000	1067		1.0180	1058		
		0666.	;	2084 2054			ø		. 1660	0067	0122	1.1074	0290	.3039	3492	.3117	.9990		2059	
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100	DEFENDENT VARIABLE	.9210	.0695 1190		7777		MACH =	NT VARIAE	.1120	. 0045	.0340	0045	.0714	. 0869		.1061	.9210	2094 1454 0512	: /20 2346 2177 2246	
	טפידביט	.8790	0482	2624	2517	0421	. 190	DEPENDENT	DEPFINDE	.0700	.0576	.0821 .0745	.0398	. 5248	.0343		.3+88	.8790	1421 1615 0585 1333	
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1) ORBITER FIRE! AGE	6) v	2450	0859	.0076	.0207	7.919 B	1) ORBITER FUSELAGE	.0080	.6831		.3589				.2803	.7290	.0369	0568	
1108811	0693	. פולי	3433 2521	2328	0979	0691	= 7.9	1 1 GRB [TI	.0000	1.6297						1.0297	. 5520	.0784 3585 5629	1676	
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- 0A14 0A148)	DEPENDENT VARIABLE . 6790 . 9210 . 6	52287 MACH =	NT VARIABLE	. 1 160	i c	0160	0670 0670	.0187	.0553		6,60.	.9210	2102 1516 0997 1661	2965 2691 3040 3098
ABULATED PRESSURE DATA - 0A1 AMES 11-073(0A148)	DEPENDE . 8790	1375 4.240 M	DEPENDENT	00/0.	.0591	.0203	. 0538	0376	0003		.0320	.8790	1410 1617 1221 2024 3059	3940 3908 3949 8534
ATED PRES AMC 3) =	.8210	.4223		. 0400	.1386	.0915	. 0213 0213	.0330	. 0693		.0736	.8210	1202 0969 0084 0177	.0682 .3440 .3777 .2606
TABULA BETA (3	AGE . 7790	. 1415 7 . 1569 BETA (4)		. 0230	.2512	. 8359 8359 8359	1594	. 1478	.1261		<u> </u>	.7790	0365 0185 1575 0749	. 1131 . 1376 . 1305 . 1486
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	(0A14B)	MACH	NT VARIABLE	.1120		0421	0899 1666	1315 1315 062c	0103			. 0506	.9210			- 1251		32,00	3813	,	VARIABLE	1120		0863	1736	. 1536 . 1161 . 0417
	AMES 11-07310A148)	8.29t M	DEPENDENT	.0700		. 0265 - 0164	1267	1281 1219	6190.			.0162	.8790			- 1627 - 2480 - 3845		+903	3885	5 MACH	DEPENDENT	. 00700				. 1973 . 0015
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		+	R FUSELAGE	.0080	0003	. 06.90		6010.				.1789	. 7290		8610	3.50.3 24.58	1474	. 0539	0293	BETA	110PBITER FUSELAGE	.0080	į	į į	•	.5487
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AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE	
AMES 11-07310A1	-3.840
	BETA (2) =
	BETA
	9年6.11
	ALPHA (5) =

SECTION (1) ORBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
x/LB	. 0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	. 2510	.3010	3780	.4970	.5740
PHI 180.000	₹ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.1113	0039	0234	0469	.0330		.2083		-1.8450	2917	1515	0845	0883	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 .000 40.000 70.000 90.000	. 1482 . 1760 4842 3455	.3316	.0289 .0564 1433 0589	06;7 0338 .0810 .1376	0972 1177 0104 0478	1738 0884 0598	1903 1654 1044 1643		0724 0829	1468					
150.000 150.000 150.000 165.000	3175 1686 1395 1058	0550 0973 0188	.0785 .0811 .0604 .0504	. 1679 . 1204 . 2495 . 3823	2682 2619 1996	1939 1939 1720 1260	1666 2169 1737 1680	2175 2175							
ALPHA (5)		11.95+ 98	BETA (3)	u	.189 M	MACH .	.59628	o	- 59	593.97	•	2386.5	S RN/L		4.8170
SECTION (110RBITER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	.0000	.0080	. 0230	. 0460	.0700	1130	. 1580	.1660	.1770	.2040	.2510	.3010	.3780	0.4970	5740
PH; .000 .20.000	.9579	7218.	. +058			2080		.0648		.0536	. 0552	¥770.	.1071	.1531	. 1618
40.000 55.000			3255			.0936		0354		0135	0213	.0384	6180	.1136	. 1825
70.900 90.000 120.000 140.000		.278T	.2498 .2105 .1231	. 0688 . 0688 . 0159	. 0524 0524	0024 0117 0142		1145		- 2051 - 3051 - 4323	2885 3013 4055	2063 2113 4001	1656 1668 2558	1592 1607 2386	
150.000			. 0443	.0023	0496	.0301		. 2668	1328	7893 7893	- 4460	1935	1059	1085	
165.000 165.000 173.000							ŗ	2946		-1.4574	. 3195	1618	0807	0776	
180.000	9579	.1070	.0040	0169	0322	.0456	<u>,</u>	83 ~2 .	•	-1.6778	2850	1475	0759	0581	
X/1 E	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
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į	5									.3780	.0978	.0235	1735			0763	+0F0·-						
	(XE8817)						ı	2386.5	,	.3010	.0659	0347	2298 2183		- 1630	1500	1609						
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				1.0460				593.97		.20±0	.0403	0932	. 3566 . 3566	6175	8158	-1.4075	17264		. 6	- 1434 - 1474			
_	FUSELAGE			1.0180	,			- 593		.1770					2409				1.0180	0806			
11-073-1	ORB			. 999C	19741	- 2092		a		.1660	.0533	. 0226	1907 1812 1831	7.1.5	.1627		ָּהָלָהָי פַּבְּיִבְּי		9836			2386 2386	
- 0A148 (AMES 11-073-1	-140A/B/C/R		LE CP	.9600	0854 1321 1957	2020	2023 1668	.59628	XE CP	.1580							¥028		.9600	1994	1262 1682 2229	. 2582 2545	
			T VARIAB	.9210	0515 1172 1719	2387		MACH =	IT VARTABLE	.1120		.0662	1208	0240	.0017			CS JA	.9210	1635	1100	3145	3152
ATED PRESSURE DATA	AMES 11-073(0A148)	189	DEPENDENT VARIABLE	.8790	0842 1454 2257	3159		.250 M	DEPENDENT	.0700	196	1217	0476	₩Z60	0759			0559	.8790	- 1043	1403	4:59	£075
ED PRESSI	AMES	•		.8210	.0153 .0446 .0933			<i>*</i>		.0460	CANC.	27.75	0359	0361	0185			0173	.8210	0673		.0133	1,53
TABULAT		BETA (3)	¥	.7790	1805 0855 . 0056	.0673	1089	BETA (4)	JOE	. 0230	2020	3587	1803	6840	.0141			.0081	.7796	.0332	1305 1305 0819	1440	1308
			R FUSELA	.7290	3737	1056	0003		1) ORBITER FUSELAGE	.0800	660	ECE/ .	- -	6611.				.077	.7290	8:60.	3874	1571	0462
76		* 11.95¥	110RBITER FUSELAGE	.6520	5064 3641	2126	1479 0959 0869	= 11.952		.0000	į) OSB:						.9367	.6520	1447	. 5772. - 3772.	2031	1093
DATE 10 FEB		ALPHA (5)	SECTION C	X/LB	PH1 70.000 90.000 105.000	110.000	150.000	ALPHA (5)	SECTION C	x/LB	PHI	.000 .030 .030	70.080 75.000 70.000	30.00.1 120.000		151.000	169.000	180.000	X/LB	005.	40.00 70.00 90.00	110.000	135.038

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						4.8170		5740	1368	.1307										
PAGE		_				RN/L .	1	.¥970	188	.0305	2203	1122	0775	1055		1420				
	51							.5780	9260.	0431	2117	1106	0799	0961		1308				
	(XEB817)					2386.5		.3010	.0478	1205	2497	•	1545 -	1642		- 1956 -				
						• Q.		0185	.0217	25.3	3500		- 3456 -	- 2882		3350 -				
				1.0460				.2040	983	•			-	-1.3585 -		-1.8392 -	1.0460	1432	. 1518	
•	FUSELAGE			1.0180		= 593.97		.1770		•		• •		3/0c 3783 		7	1.0180 1	0782		
. AMES 11-073-1				0666.		ø		. 650	.0407	1240	. 2341 . 2401 . 2401	1986	.0550		.1,482	. 1363	. 9990	•		2652 2652
	-140A/B/C/R ORB		A.E. CP	0096	- 1705	.: 9628	LE CP	1580							3418		.9600	1992		
A - 0A148			DEPENDENT VARIABLE	.9210	3211	MACH	IT VARIABLE	.1120	1 1 1 1	0809	1493	0725	0527			0091	.9210		- 1325 - 1574 - 2083 - 3026	4029 3647 4157 4326
PRESSURE DATA	AMES 11-073(0A148)	4.250	DEPENDE	.8790	2781	8.320 M	DEPENDENT	.0700	. 1234	0196		1539	1243			0977	.8790		1510 2056 2845 4537	5471 5271 5443 4948
_	AME			.8210	.3994			.0460	. 2279 1563		858	106:	0624			0452	.8210		0534 1357 1415 1402	.0582 .4573 .3926
TABULATED		BETA (4)	3	.7790	.1114	BETA (5)	R	. 0230	.3613	. 1609			0487			0264	0677.			1241 .0375 .0489 .0167
			R FUSELA	.7290	0290		R FUSELA	. 0080	. 7548		0708					2610.	.7290	.0870	4184 - 3321 -	.2428 .0716
8 24		• 11.952	1)08817	.6520	6928 1110	* 11.942	1) ORBITER FUSELAGE	.0000	.8815		·					88 5 5	.6520	.1330		2352 - 1154 - 1519 1904 -
DATE 10 FEB		ALPHA (5)	SECTION (1) ORBITER FUSELACE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (X/LB	PHI .000 .000	*0.000 55.000	70.000 90.000	140.000	150.000 151.000	165.000 165.000	174.000	180.000	X/LB	1Hg .000		120.000 135.000 150.000 165.000

AUG 75 1

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	I FUSELAGE	(XE8818) (05 AL	- 05 AL
	ã	DADAMETRIC DATA	

	1.400	2.914		.5740	0570	0596													
		•		.4970	0582	0914	6259	710.	0584		0781	0961							
DATA	SPOBRK - L-ELVN - MACH	RN/L		.3780	0361 -	0812 -		0879			- 82 	1202 -							
PARAMETRIC DATA	.000 -11.700 .000	439.47		.3010	0226 -	1460		1721			- 1579 -	- 1387 -							
_	RUDDER = BDFLAP = R-ELVN =	۵.		.2510	0041	1739	9461	1636	2859		₹. 1	2786							
	581	599.95		.2040	0258	1799	. 141.	0907	- 0910 - 0910		1414	P434	1.0460	4585					
		*		.1770						. 8061			1.0180	- 4451 - 4480					
		o		. 1660	0523	0962 0962	. 1203 2250	2002	1.0012		1.0623	9866	0666.			1595	1383		
		1.3965	ALE CP	. 1580								1.0959	.9600	2691		U468	0261 .0574	. 1083	1.6361
	928	MACH	DEPENDENT VARIABLE	.1120		0739	. 1125	2709	5570			.5607	.9210	2076	0529	0171	0505 .0759	1961.	e/ne.
	800 IN.	-3.854 MA	DEPENDER	.0700	5000.	. 0668	.2341	8148				STT#.	.8790	1617	1536	. 0309	. 1130	1726	. 4805
	1076.6800 .0000 375.0000			.0460	.0824	. 1273	.3183	16913	ים ים. מינות			.6035	.8210	0928	1987	.2396	.2854 .4216	3113.	.4290
⋖	XMRP YMRP ZMRP	BETA (1)	30	.0230	.2068	. 4482 5844	5970	7552	8318.			.7349	.7790	0376	. 0418 . 0605	.2053	.3558	.3883	.3768
REFERENCE DATA	SO. FT.		R FUSELA	.0080	.6786			.9407				1.0300	.7290	0207	.0201		.0619	.0439	.0182
REFER	2690.0000 474.8000 936.0680 .0300	-4.050	1.10RB1TE	.0000	1.4757							1.4757	.6520	0191			.0370	0063	0136
	SREF = 28 LREF = 1 BPEF = 9 SCALE = 9	ALPHA (1)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 . 000	20.000 40.000	55.000	90.00	170.030	151.000	165.000	174.000	X/LB	1Hd	70.000 90.000	105.000	175.000	150.000	165.630

	2.9144		04Z6.	6512								2.9144		5740	0614	0363	
	#W/L -		0.4970	0520	6770. 5400. 8800. 8890.	0713	0765	0783				•		.+970	0622	0710	0098 0146 0752
(XE3818)			3780	. Si		1392	1238	1181				7.8		3780	0%	0516	1365
(XES	- 439.47		3010	0111	1065 1633 2394 4021	1820	1446	1072				439.47		.3010	0100	0722	3000 3000 4528
	۵		5150	0001	1155 2459 2395 1861	2995	2769	2987				•		.2510	0079	0736	2886 3025 2517
••	599.95		.2040	0316	. 1198 . 0321 . 0723 . 0101	0700	1527	2902	1.0460	4550 3461		599.65		.2040	0416	0788	
FUSELAGE	•		.1770			5567	7418		1.0180	4413		* 599		.1770		·	• •
C/R ORB	O		.1660	0546		. 931 1	1.0379	1.0277	.9990	9	2 C C C C C C C C C C C C C C C C C C C	•		. 1660	0565 0486	0361	. 0949 . 1233 . 3504
+140A/B/C/R	1.3965	BLE CP	. 1580				6365		.9600	2709 2811 .0028 0327	1246 0160 .0265 2984	1.3965	LE CP	. 1580			
11-07310A14B)	MACH .	INT VARIABLE	.1120	.0487	0458 0458 1346 1644 3851	.5155		.5620	.9210	2078 1580 .0159 .0052	. 1111. . 0185 . 1000 . 1927	MACH =	T VARIABLE	.1120	0369	0492 0068	.0583 .0751 .2875
	. 192	DEPENDENT	.0700	.0186 .0096	. 2356 . 3588 . 3588	3424.		.4901	.8790	1612 1660 .1084 0650 0171	.0236 .0733 .1696 .4195	4.285 MA	DEPENDENT	.070	.0210		. 1386 . 1400 . 2690
AMES	e) =		.0460	.0807 .0892 .1.34	. 3084 . 3835 . 5256	.6135		.6100	.8210	0880 0921 .2291 .1898	.1347 .3912 .4162	•		.0460	.0783	.1618	.4386 .4386
	BETA (2	AGE	.0230	.2123 .2471 .3886	.5077 .5816 .6*38	.7476		.7388	.790	0382 0585 .0001 .1509	.3012 .3849 .3030 .4039 .4035	BETA (3)	Ä	. 0230	.2198	55. 14. 159 160 160 160 160 160 160 160 160 160 160	. 5352 . 5352 . 6269
	-4.042 B	170RBITER FUSELAGE	.0080	.6769	.800			1.0152	.7290	0148 .0072	.0573 .0403		R FUSELAGE	. 0080	.6615		.6507
		1108911	.0000	1.4793				1.4793	.6520	0176 0451 .0585 .0679	.0352 .0057 0011	= -4.05I	1) ORBI TER	. 0000	1.4640		
	ALPHA C D	SECTION	X/LB	PHI .000 .20.030	55.000 70.000 99.000 120.000	150.000	165.000 169.000 174.000	•	X/LB	PHI .003 .40.623 .70.663 90.603 110.603	120,000 135,000 150,660 165,993 186,993	AL HB (1)	SECTION (X/LB	20.000 20.000	46.000 65.000 40.000	96.060 120.000

DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

	9	.5740					101		On S	04.0	.0193							
			£				- 2.9101		•	•	•	<u> </u>	8	ቴ	麦	20		
.*		£970	0533				. 7.Ne		0/63·	0185	0334	- PE 13		5,3675	e7e4	27		
		3780	1658						.378C	.0083	cd26	1459	16EB	- 156-	1642	:518		
		.3010	- 1965				- 440.18		3010	.0302	0289		3828	2442	2089	1642		
		<u>8</u>	3359				·		£.	6400.	0218	2123	1965	-, 3539	3219	3496		
		.2040	2963	1.0460	4241 3196		599.63		.2040	0077	. 0266 . 0266			1927	2004	3475	1.0463	4199 3136
		.1770		1.0180	4095 4355		= 599		.1770					6389	7168		1.0180	4033
		. 1660	.9503	.9990		1792	ø		. 1660	0052	.0033	. 1951. 1951.	4758	. 9893	7666.	.9843	0666.	
	LE CP	.1580		.9600	2145 2395 0012 0770	1357 0172 .0460 2464	1.3950	RE CP	.1580							1.0285	.9600	2136 2056
	DEPENDENT VARIABLE	.1120	.3703	.9210	1494 0834 0164 0208	1133 0271 .1185 .2275	MACH =	T VARIABLE	.1120	,	25.05.05.05.05.05.05.05.05.05.05.05.05.05	1444	2960	.3617		. 3842	.9210	1440
3.874	DEPENDEN	.0700	.3468	.8790	0996 1172 .0685 .0528 0531	.0357 .0357 .0497	.186 M	DEPENDENT	.0700	9160.	.0872 1429	. 2233 . 2468	3115	.3354		.3702	.8790	0944 1029
•		.0460	. 5040	.9210	0358 0432 .0427 .1278 .1819	.3316 .3245 .3245			.0460	. 1663	.2137	3302	4740	.5249		5123	.8210	0254 0242
BETA (1)	OE	. 0230	÷+09°	0677.	. 01108 - 01114 - 1262 - 0849 - 0132	.2765 .3324 .3171 .3171	BETA (2)	JOE 10E	. 0230	.3331	.35.59	5573	2013 1013	.6421		.6167	.7790	.0112
030 BE	LIORDITER FUSELAGE	.0080	.8957	.7290	.0659 0178	0175 .0046	.025 86	110RBITER FUSELAGE	.0090	.8332		į	£ //:			.8833	.7290	. 0202
•		. 0000	1.4796	.6520	0008 0062 .0153 .0153	0211 0290 0282 0275		11089116	. 0000	3.84°.1						9-84.1	.6523	0082 .0065
A: PHA (2)	SECTION (X/LB	PH1 180.000	X/LB	PHI -000 +0.000 70.000 90.000	110.000 135.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	PH1	20.000 40.000	70.563	80.00.001 190.001	140.000	20.50 20.50 20.50 20.50 20.50	174.000 180.000	X/LS	500 500 40.603

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TABULALED PRESSURE DATA - DAINB (AMES 11-073-1)

.9990 1.0180 1.0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE -.2206 .9600 DEPENDENT VARIABLE CP .9210 .0230 .8790 .8210 .0992 .1305 -.1250 .0171 .1538 .730 -.025 ; BETA SECTION (1) ORBITER FUSELAGE .7290 -. 0956 -. 0439 .6520 ALPHA (2) 70.000 92.000 105.000 125.000 135.000 165.000

2.9101 Ž 440·18 599.63 **= 1.3950** 4.265 MACH 6424 BETA (3) .2816 .2939 .3115 .0183 -.030

.0037 .0807 .1179

3385 3577

.0223 .0071

-.0047 .0121

.4970 .3780 .3010 .8510 .2040 .1770 .1660 DEPENDENT VARIABLE CP SECTION (1) ORBITER FUSELAGE .0000 ALPHA (2)

575

-.0320 -.027

.0053 -. 9063

.0230 -. 0205

.0003 .0010 -.0455 -.0502 -.0556

-.1496 -.1710 -.1862

-.1678 -.2711 -.4515

-. 2552 -. 2690 -. 2666

-.0150 -.0207 -.0181 .0633 .0741

-.0836

-.1976

-.2386

-.3553

-.0935

-. 1833

-. 1829

-.3621

-.2124

9451

5333

8203

- 699

-. 1667

-.2052

-.3387

.3170 1.0460

1.0180

9990 9723

.8790

.8210

.7790

.7290

.6520

X/LB

-.0159 -.0143 .0002 .0535 .0989 .1546 .1580 .1120 .0181 .0217 .0409 .0660 .0762 .0700 .0912 .0689 .1033 .1529 .1581 .0460 1536 1522 1679 1679 2725 2761 3914 .0230 3234 3234 3381 3381 4566 4876 4876 5709 .0030 .7843 1.4704

.9719 3043 .3673 3741 .5162 4868 5888 .6144 6208 .8621 +704-1 25.000 55.000 75.000 76.000 150.000 151.000 165.000 16

.9600 -.2170 -.2009 -.1002 -.1350 .9210 -.1437 -.0994 -.0953 -.1638 -.0989 -.1015 .0013 -.0599 .0341 .0182 .0908 .0097 0095 0244 0909 0378 1725 .0189 -.1165 0159 0189 0557 . 660 70. 000 70. 000 90. 660 110. 660 125. 660 Ŧ

-.408.

-.8717 -.ETT

-.2179 -.1010 -.0277

-.0738 -.0009 .0803

2908 2908 2965

2250 2881 3045

.0265

.0088

9410.

(XE8818)

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TABULATED PRESSURE DATA
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DATE 10 FEB
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TABULATED PRESSURE DATA - CAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R.ORB FUSELAGE
TABU	

ALPHA (2) =

SECTION	SECTION (1) ORBITER FUSELAGE	ER FUSEL	AGE		DEPENDENT VARIABLE	T VARI	WELE CP								
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	. 999 0	1.0180	1.0460					
PH1 165.000 180.000	0175	.0227	3031	.3222	1049.	. 0597	3132								
ALPHA (3)	3.91	Ø	BETA (1:		-3.877 M	MACH	1.3940	o	296	599.41	a.	= 440.65		•	4
SECTION (1) ORBITER FUSELAGE	4GE		DEPENDENT VARIABLE	IT VARIA	BLE CP			•					
X/LB	. 0000	. 0080	. 0230	. 0460	.0700	.1120	.1580	. 1560	.1770	.2040	0185	.3010	3780	0.64	5740
741 000 000 000 000 000 000	1.4689	.9247	.4379	.2686	.1663			.0462		.0345	91.40	0320	0250	Q.	7.
40.000 55.000			. 6264 . 6264	. 3529 . 3529	. 2580 . 2580 . 2580	.1348		. 0922 . 0922		0.00 0.00 0.00	.0607	.0323	.0472	.0156	0.326
70.000 90.000		.8732	7018	.4587	3330	. 2301 . 2370		. 1897 . 2685		27.1.5. 27.15. 21.19.1.	1307	0468	0413	0855	
140.000			.6577	.4715	.3308	.3000		.5561			1133			1517	
50.000			. 5665	124+.	.2744	.2948		.9385		1235	3897	3257	1845	1107	
162.000 165.000 169.000								8	.7466	24+1	3558	2751	. 1828	0951	
174.000							.9508	.9880							
200.001		68c/ .	.4773	.¥136	8257	.2716		3606.	Ť	3'155	3816	2407	- 1991	0769	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
.H.		6		1											
¥0.000	.0593	1850.		1000 1000		0862 0392	1585	•	3749	3899					
70.000 90.000	050	1527		0950 0508	0236	0756	0588	•		6003					
105.000				1129		2014		ļ							
17:0.000	6773	1059	.1930			. 1628	2148	2750							
150.000	0499	.0003	. 2262 . 2262	.2317	0208 0585	1279 .0469	0889 0254								
180.000	0416 0349	.0555	. 2227 . 2227	.2730		.1718	2361								

			_	••	_										•			
	2.9155		.5740	. 0233	.0207								2.9155		.5740	.0127	0001	
	٠		.4970	.0264	.0138	1084	0693	059+	0558				•		.4970	.0186	.0134	1161 0980 0757
ê	RN/L		.3780	.0563	5740.	1425	1729	1869	1909				RN/L		.3780	.0547	. 5040.	1515 1916 1728
(XE8818)	440.65		.3010	.0517	.0396	1029 1684 3636		.2545	2123 -				440.65		3810	00,00	.0255	1562 2283 4245
	•		_	_	_										•	•	•	
	۰.		.2510	1259	. 0698	1770	3979	3623	3949				Q .		.2510	.0211	.0624	2213 2404 2726
	599.41		.2040	.0369	0120	. 1565 . 1565 . 1109	. 2062	2449	3848	1.0460	3906 2862		Ŧ		.2040	.0258	.00 .01 .01 .01	. 1025 . 0304 0045
ORB FUSELAGE	- 599		0771.				8163	.6903	·	.0180	3714		= 599.41		0771.		•	•
면 12			ë	- 0	ΟΌ Œ	5 to to to	0	19	.	- 0		m au						
で で で で で	G		. 1660	.0511	.078 		.8410	.9473	.9354	.9990		2.835 5775	O		.1650	.0410	.0521	. 1488 . 3749
-140A/B/C/R	1.39+0	BLE CP	.1580					į	35.	.9600	- 1586 - 1425 - 1080 - 1590	2511 1239 0786 2665	1.3940	LE CP	. 1580			
	MACH	IT VARIABLE	.1120	.0873	200	1536 2378	.2695		.2780	.9210	0764 0417 1101 1238	1819 0828 .0005 .0795	8	I VARIABLE	.1120	.0776	.0784	.0722 .0715 .1720
AMES 11-075(0A148)	.185 M	DEPENDENT	.0700	178 168 168	. 2228 . 2228 . 2527	25.4% 25.4% 26.4% 26.4%	.2517		.2719	.8790	0292 0376 0527 1260	0371 .0328 .0813	55 MACH	DEPENDENT	.0700	.1763	.1708	1691 1580 1978
ATEU			.0460	.2661	3063	3392	.4322		.4185	.8210	0734 0428 0343 0341	.1341 .2450 .3269 .4121	= 4.255	•	.0460	.2565 .2436	188. 188.	.2400 .2602 .3372
	BETA (2)	띯	.0230	4437	. 5513	. 5942 . 6002 . 5859	.5339		.4938	0677.	. 1974 - 1974 - 1802 - 1808	. 1917 . 1978 . 2080 . 21.? 1	A (3)	lų.	.0230		.4671 .48?4	
		R FUSELAGE	.0080	. 9259		.7350			.7458	. ,290	.0621 1807 1231	###0 #500.	23 BETA	FUSELAGE	.0080	41 IG.		. 5823
	3.922	1) ORBITER	. 0000	1.4709					1.4709	.6520	. 0263 . 0604 0639 0156	0275 0191 0295	* 3.923	1) ORBITER	.0000	1.4584		
	ALPHA (3)	SECTION (X/LB	PHI 20.000	55.000	70.000 90.000 120.000	150.000 150.000 151.000	162.000 165.000 169.000	180.000	X/LB	PH1 .000 46.000 70.000 90.000 105.000		ALPHA (3)	SECTION C	X/LB	F 41 .039 .20.696	\$0.000 55.000	70.009 90.009 120.000

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AMES 11-073(0A148) -140//B/C/R ORB FUSELAGE

3.923

ALPHA (3) =

DATE 10 FEB 76

		.5740									2.9129		.5740	.0735	.0922			
		.4970	0668	0725	0853						•		0794.	.0784	.0727	1089 1343 2812	1259	0892
		.3780	1968	2089	2001						PAY.		3780	•	. 1045	0324 0859 3394	2156	2038
		.3010	2938	2300	2478						+33.94		.3010	₩020.	.1073	0316 0689 3164	3819	3223
		.2510	4085	4073	-, 3832						•		9169	.0807	. 1239	1071 1155 1229	4347	4011
		.2040	1616 2683	2597	3672	1.0460	-, 3954 -, 2745				599.84		.2040	÷.087	.0893		1162	2882
		.1770	52155	.6100		1.0180	3774				566		.1770					7208
		.1660	.7885	1 668.	.9323	. 9990		3085			ø		.1660	1101	1721	. 1917 . 1960 . 5136	.8823	.9221
	SLE CP	.1580			.8921	.9600	1631 1470 1452 1802	3395	1796 1452	e957	1.3956	LE CP	.1580					.8159
	DEPENDENT VARIAGLE	.1120	.2238	•	.2697	.9210	0789 0522 1390 1422	2498	1433	981n.	MACH *	IT VARIABLE	.1120	567	2005. 2005.	.237 .219 .224	.2085	
	DEPENDE	.0700	. 2241		.2765	.8790	0327 0363 0693 1444	0967	0681 0021	. cos	-3.867 MA	DEPENDENT	.0700	2532	3371	.3399 .3150	.2136	
•		.0460	4052		.4278	.8210	. 0320 . 0525 - 0272 . 0200	.0058	. 2256 . 2082	.2687	.3.		.0460	.3699	4513	.4513 .4352 .3852	.3335	
' !	AGE	.0230	3164.		3464.	.7790	. 0619 . 0844 - 1951 - 0262	.1519	.2311 .2311	.2380	BETA (1)	Ä	.0230	.5490 .5966	.7059	.6599 .6598 .6779	. 4543	
	ER FUSEL	.0080			.7270	.7290		0250	.0162	.0552		R FUSELA	.0080	1.0404		.8225		
	1.000	. 0000			1.4584	.6520	.0207 .0491 0623	0005	0153	+.0344	= 7.792	110RBITER FUSELAGE	0000.	1.4396				
	SECTION (1) URBITER FUSELAGE	X/LB	PHI 140.000 150.000 151.000	165.000 169.000	180.000	87/X	PHI .000 40.000 70.000 90.000	120.000			ALPHA (4)	SECTION (X/L8	PHI .000 20.000	40.000 55.000	70.000 90.000 120.000	150.000	162.000 165.000 169.000 174.000

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

			5740	!				62.6.6		.5740	.0798	.0755						
			4970	2030			٠	•		.4970	.0819	. 0665	15 J6 1594 1680	0721	0506	0463		
(XE8818)			.3780	1 10				RN/L		.3780	.1066	. 1023	1366			2022		
(XEE			.3010	•				+6.95+ =		3010	1770.	¥101·	0816 1248 3547		2866	2467		
			.2510	•		,		۵		.2510	.0758	.0997	1465	4313	3960	4261		
ιή			.2040	9787	~	1 1		599.84		.2040	.0975	0637	1500	.2121 2121	2791	4127	1.0460	3555
FUSEL AGE			.1770	•	1.0180	- 3460 - 3400		* 53		. 1770					.6089 .6666		1.0180	3396 3449
C/R ORB			.1660	.8670	0866		3079 2899	o		. 1660	#E11.	1418	1390	3797.	.8918	1.8871	0666.	
AMES 11-073(0A148) -140A/B/C/R ORB		ABLE CP	. 1580		. 9600	0976 0874 0802 2100	2405 1232 0921 2670	1.3956	BLE CP	. 1580					į		.9600	0895 0841
3(0A14B)		DEPENDENT VARIABLE	.1120	.1886	.9210	* * * * * * *	1946 1354 0015	MACH	NT VARIABLE	.1120	.1622	1792	. 1560 . 1390 . 1880	. 1988		.2031	.9210	0100
TS 11-07	-3.867	DEPEND	.0700	. 1859	.8790	.0156 .0156 1333 1318	0597 0483 .0341	.182 M	DEPENDENT	.0700	.2662 .2534	2978	.2347 .2347 8415.	. 1908		.2065	.8790	. 0430
AM			.0460	.3188	.8210	. 0973 . 1108 2217 0291	.0726 .1277 .1254 .3255	8		.0460	.3764	3793	.3345 .3345 .3336	S145.		.3409	.8210	.1125
	BETA (AGE	. 0230	.3546	.7790	.1295 .1463 2769 2336	.0822 .0657 .0673 .0793	BETA (2)	AGE	.0230	. 5517 . 5679	.6753 .6144	.58%1 .5665 .5131	1434.		.3842	.7790	. 1562
	7.792	TER FUSEL	. 0080	.6250	. 7290	.1120 2364 1932	1693 0242 0232	7.79i Bi	1) ORBITER FUSELAGE	. 3080	1.0414		.6879			.6137	. 7290	.1215
		(1) ORBITER FUSELAGE	.0000	1.435	.6520	. 0964 . 1309 1327 0835	1799 0849 0589	1,7	1.108817	. 0000	1.4462					1.4462	.6520	. 1179
	ALPHA (4)	STCTION	X/LB	PH1 180.000	X/LB	PHI . 000 70.000 90.000 105.000	120.000 135.000 150.000 155.000	ALPHA (4)	SECTION (X/LB	PH1 .000 ?0.000	40.000 45.000	76.000 90.630 120.000	150.000	162.000 165.000 169.000	180.030	X/18	PH1 .000 .40.000

DATE 10 FEB 76

(XEBB1B)

					2.9129		.5740	140.	.0566								
					•		0.64.	.0815	.0433	1903 1528 0991	0567	0567	0731				
					RN/L		.3780	9	.0879	1438	1789	2086	2078				
					439.94		.3010	.0702	.0715	1322 1761 3971	3271	. 2535	2075				
					•		.2510	0770.	.0598	-, 1809 -, 2093 -, 2525	4398	÷.4293	-,4113				
		1.0460					.2040	. 0858	. 0309	1035 1035 0784 0271	•	. 2352	. 4000	1.0460	3593		
		1.0180 1			* 599.8 ⁴		.1770					3846	٠	1.0180 1	.3460		
		1 3666.	2000	-, 3247 -, 3247	o		.1660	. 1058	. 1006	.0635 .0893 .3837	.7+34	.8475	.8 91 9	0666.	••		- 3887 - 3887
	LE CP	.9600	1473 2004 2774	2764 1692 1169	1.3956	LE CP	. 1580						. 8056	00	0921 0895	1985 2718	3623 2115 1848
	DEFENDENT VARIABLE	.9210	1572 2068 2961	2092 1256 0539	HACH .	CEPENDENT VARIABLE	.1120		1325	.0746 .0822 .0654 .1340	.1577		.1884	.9210		1735 2057 3298	2738 1713 1261
. 182	DEFENDEN	.8790	1467 1893 2230	0807 0191 .0360 .2349	.252 MA	CEPENDEN	.0700	.2632	. 2423 . 2423	.2092 .1717 .1546 .1537	.1561		.2013	.8790		14eu 2151 2772	1275 0758 0457
n		.8210	0964 0129 .0549	. 1546 . 3666 . 4311	<i>x</i>		.0460	.3762	.3381	. 2855 . 2440 . 2419	.3189		3400	.8210		0303 0303 0034	0705 .2296 .3017
3ETA (2)	æ	.7790	2659 2227 0264	.0955 .0976 .0967 .1039	BETA (3)	પ્ર	.0230	8458	.5287	.4993 .4743 .4707	.3924		STTE.	.7790		2577 1403 .0255	. 0722 . 1465 . 1595
	R FUSELA	.7290	2449	0831 0376 0162		R FUSELA	.0080	1.0285		.5377			.5855	. 7290	. 1269	2350 1682	0602
- 7.75ı	1) ORBITER FUSELAGE	.6520	1306	0650 0362 0300	₹ 7.919	110RBITER FUSELAGE	0000.	1.4320					1.4320	.6520	. 1030		0347
ALPHA (4)	SECTION (X/LB		110,000 120,000 135,000 150,000 165,000	ALPHA (4)	SECTION (X/LB	PH1 .000	20.000 40.000	55.020 76.000 90.000 120.000	140.000	151.000 162.000 155.000 159.000	174.000	X/LB	000		110.080 120.099 135.099 150.09

(XE8818)

TABULATED	
76	
FEB	
9	
DATE	

PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

				2.9163		5740	. 1503	.1695													
				•		. 4970	.1524	. 1445	+660	1.4860	1589	1040		0725							
į				FRYL		.3780	.1457	.1770	0189	4334	2552	2189		2057							
				438.24		.3010	.1216	1778	0109		4268	3611		-,2904							
				•		500 500 500 500 500 500 500 500 500 50	.1416	7571.	0760		4706	1484		++E4							
		1.0460				.2040	. 1643	.1555		1858	0786	3296		+.4074	1.0460	3314					
		1.0180		= 599.65		.1770						6889			1.0180	3138					
•		აგგი.		o		. 1660	. 1855	.2006 .2490	. 1904	. 1850 .4332	.8740		.8+52	.8012	0666.			24.5. 24.5.			
	LE CP	.9600	2958	1.3965	LE CP	.1580) () 0	.9600	0231	0805 0797 1731			2950	
•	T VARIABLE	.9210	0626	MACH .	T VAR! ABLE	.1120		. 2536 4585.	.2493 .2386	.1973	. 1342			.1238	.9210	0790.	0562 1915 2960	-, 2257	1382		
Art. 3 11-0/3/04/48/	DEPENDENT	.8790	. 1803	-3.848 MA	DEPENDENT	.0700	.3542	.3627 .4258	3404	. 2983 . 1843	.1456			.1167	.8790	1721.			0980		
•		.8210	.3000	• -3.		.0460	.4876	.5111 .5495	.5144	3106	.2250			.2312	.8210	9. 8. 8. 8.			900	y V	.3736
BETA (3)	پږ	.7790	1114	BETA (1)	ų. Š	. 0230	.6770	.7182 .7898	6758	.6195 7494.	.3521			.2597	.7790	2228	3033		0340	1385	0617
	R FUSEL?	.7290	0087		R FUSELA	.0090	1.1498			. 7662				¥88¥.	.7290	.2000	3334 2606	160.	_	1667	0607
- 7.919	1) ORBITE	.6520	0321	= 11.807	1.10RB1TE	.0000	1.3916							1.3916	.6520	.1776	1778) i i i i	0971	0585
ALPHA (4)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LE	PH1 .000	20.000 40.000	55.000	90.000	150.000	151.030 162.030	169.003	174.000	X/LB	PH1 .000	70.000 90.000 90.000	110.030	135.032		

MES 11-073-1)
- 0A148 ()
TABULATED PRESSURE DATA
TABULAT
DATE 10 FEB 76

	163		5740	1496	1503										<u> 12</u>	!	5740	前	Ž,	
	2.9163		E,	•	-										2.9163		Ę	=	.122	
	# بے		.4970	.1598	.1270	- 1699 - 1977 - 2444	0910	0581	0446								.4970	1477	. 1050	2321 2419 1448
18)	RN/L		.378c	.1530	.1581	0888 1310 4303	1953	1882	2024						1784 1784		.378º	.1515	.1306	1467 1804 3705
(XEBB18)	438.Pt		.3010	. 1280	.1337	0738 0961 3509	3914	.3139	5712 -						439.2t		3010	5	.077%	1210 1462 3812
	*		33.0	1334	G			•												
	۵		Ķ	. 13	. 1261	1173 1447 1815	4667	4275	4566						ف		8 5	. 1342	. 0642	1596 1880 2384
	9.65		.2040	.1638		. 1626 . 1626 . 180	. 0223 2056	3159	4407	1.0460	3349	<i>27</i> 62			599.65		.2040	100 100 100	.0525	.0996 .0996 .0432
FUSEL AGE	599		.1770				.5868	.6348		1.0180	3137	3528			# 599		.1770		•	
8	ø		.1660	1880	826	. 1182 . 3995	.7326	.8137	.8267	0666.			3297		ø		.1660	. 1505	. 1386 . 5479	.0600 .0657 .3635
-140A/B/C/R	1.3965	BLE CP	.1580					ć	. /486	9600	0256	1369 1369 3382		1642 3068	1.3965	E CP	.1580			
11-073(0A148)	MACH "	NT VARIABLE	.1120	2770	2461	1513	.1303		.1307	.9210		2378 2729 3511	2453		Ħ	T VARIABLE	.1120	.2061	. 1861	. 0759 . 0503 . 0875
5 11-073	.187 M	DEPENDENT	.0700	3630	3666	9.55 9.55 6.55 7.55 7.55 7.55 7.55 7.55 7.55 7	. 1240		.1314	.8790		2539 2539 3045		0237 2259	268 MACH	DEPENDENT	.0700	.3521	069. 2000.	. 1615 . 1368 . 1072
AMES			.0460	8884.	+823 +031	.3398 .3080	.2347		.2494	.8210		2070 1069 0036	0451		3°	-	.0460	4484.	. 2936 . 2936	.2386 .2154 .2016
	BETA (2)	AGE	. 0230	.6722 .6818	. 6966 6240	.5601 .5205 .4301	3242		.2633	.7790	.2367		.0217	1039 0564 0331	TA (3)	ų,	.0230	.6613	36.02 36.03 36.03	.4298 .3687
		ER FUSELAGE	.0080	1.1488		.6283			9294.	.7290	.1986	3537	1208	0863	10 BETA	P FUSELAGE	.0080	1.1370		.4878
	* 11.815	110RB1TER	.0000	1.3934					1.3934	.6520	7071.	2270	0984	0690 0448 0372	= 11.810	110RB1TEP	.0000	1.3823		
	ALPHA (5)	SECTION (X/L8	PH1 .000 20.000	40.000 55.000	70.000 90.000 1.0.000	150.000	165.000 165.000 167.1	180.000	X/LB	PH1 .000 40.000		. 20.000 135.000	150.000 165.000 180.000	ALPHA (5)	SECTION (X/LB	PH1 .000 .070.076	25.63 25.63 35.63	90.000 90.000 120.000

273				.5740							2.9104		.5740	.2365	<u> </u>		•	
PAGE 2				.4970	0622	0547	0738				•		.4970	.2245	.2290	1071 1322 4179	3135	-138
	69			.3780	1733	- 0761	2060 -				RN/L		.3780	.2100	.2473	0137	3108	. 3456
	(XEBB18)			.3010	3537	2817	2919				440.18		.3010	. 1920	.2238	0193	4805	* #000 * *-
				.2510	4691	4467	4311				•		.2510	.2113	. 2330	0680 0928 1250	5119	4663
				.2040	0676 2847	3246	4221	1.0460	3381		599.73		.2040	Ų.	2209	1187 1745	. 1194	3783
_	ORB FUSELAGE			.1770	, 1 889	. 5569		1.0180	3179		• 596		.1770				2772	19
0A148 (AMES 11-073-1				. 1660	.6726	.7631	.8251	0666.	6	000	σ		. 1660	.2718	3129	. 1561 . 3049	.7886	.8049
3 (AMES	-140A/B/C/R		RE CP	. 1580			.6767	.9600	0334 0325 2242 6578	4204 2178 2147 3188	1.3951	RE CP	. 1580					.5861
1			IT VARIABLE	.1120	.1040		3711.	.9210	. 0590 294£ 3005	3051 1710 1427 0897	MACH .	IT VARIABLE	.1120	•	3813	. 2377 . 1580 . 1885	.0620	
PRESSURE DATA	AMES 11-07310A148)	4.268	DEPENDENT	.0700	.1015		. 1323	.8790	.1229 .1108 2357 3017	1708 1045 0421 .2098	-3.833 HJ	DEPENDENT	0020	6494	5087	. 3575. 7575. 7579.	. 0607	
	AMES			.0460	.2280		.2526	.8210	. 2099 2115 1393 0831	1357 .1525 .2862 .3824	3.		.0460	. 5982	6423	4.4.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	.1098	
TABULATED		BETA (3)	V GE	. 0230	. 2931		.2623	.7790	.2543 .2543 3724 2510	.0099 0516 0039 0455	BETA (1	AGE	.0230	7987	. 8639 9639	. 6489 . 5678 . 5678 . 1504	¥.	
			11 ORBITER FUSELAGE	.0090			.4427	.7290	.2084 3332 2202	0963 0374 0545		110RBITER FUSELAGE	.0080	1.2463		.7009		
9.76		• 11.810	11088116	. 0000			1.3823	.6520	. 1503 . 1705 2154 1146	0409 0376 0376	• 15.906	1109011	. 0000	1.3155				
DATE 10 FEB		ALPHA (5)	· SECTION (X/LB	PHI 140.000 150.000	162.000 165.000 169.003	174.000 180.000	X/LB	PH1 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000	135.000 150.000 150.000 150.000	ALPHA (6)	SECTION (87:X	PH1 .000	40.000 40.000	20.000 120.000 120.000	140.000 150.000	165.969 165.969 174.986

,

(XEBB14)

FUSEL
9 7 8
VB/C/R
-140/
0A14B
11-073
AMES

BETA (1) = -3.873

ALPHA (6) = 15.906

DATE 10 FEB 76

	.5740					2.9184		5740	.2333	. 2283						
	.4 9 70	.0709				•		0.4970	.2320	. 20 4 9	1959 1997 3215	3.1046	. 0536	0546		
	.3780	- 6461				FBN/L		.3780	.2208	₽602.	0861 1171 524	2387	- 1846 -	1746 -		
	.3010	3050 -				440.18		.3010	9161.	.1769		- 5555	.3360	- 5848 -		
	.2510	- 1854						.2510	.2176	.1607	1121 1389 1795	- 4964.	+532 -	4801 -		
	.2040	. 4410	1.0460	3074		73 P		.2040	57.47. 08.00	243 243 243		. 1656 -	3503 -	. 4635	.0460	3191
	.1770	·	1.0180			= 599.73		0771.				2972	9+09	•	.0180	2842 3198
	. 1660	. 7283	0666.	3072 3319		0		.1660	.2722	2423 2000	.0988 .0912 .3155	.6312	רדבר.	.7624	. 9990	''
LE CP	.1580		.9500		2954 3169	1.3951	E CP	.1580					;	.64 18	.9600	. 0204 . 0245
DEPENDENT VAR! ABLE	.1120	.0636	.9210		2729 0518	Ħ	T VARIABI	.1120	i de	3141	1426 0867 1720	.0626		.0645	.9210	.1586 .1596
DEPENDEN	.0700	.0564	.8790		5712 3712 .1672	. 184 MACH	DEPENDENT VARIABLE	.0700	.4676	. 4375 - 375	.2273 .1830 .0610	.0542		.0679	.8790	. 2257 . 2257
	.0460	.1370	.8210	.3201 .3201 .4600 .0358			-	.0460	.6059		.3263 .2700 .1690	.1310		. 1642	.8210	.3207
y	. 0230	.1537	0677.		1769 2069 1022	TA (2)	H	. 0230	9008.	. 754B	.34.76 .34.76 .34.76	.2237		.1600	0677.	.3533
1 ORBITER FUSELAGE	.0000	.3183	.7290		3209	20 BETA	R FUSELA	.0080	1.2496		.5631			. 2848	.7290	£.0£.
1 YORBITE	. 0000	1.3155	.6520	.3158 .3158 .2541 1429	2854 1216 0790	= 15.920	1.0881TE	.0000	1.3203					1.3203	.6520	.2910
SECTION (X/LB	PH1 190.000	X/LB	PHI 40.000 40.000 100.000 1100.000		ALPHA (6)	SECTION (1) ORBITER FUSELAGE	x/LB	. 300 . 900	10000 10000 100000 100000	70.000 90.000 120.000	150,000	162-703 165-703 169-703	174.1.00	X/LB	PHI .003 40.000

E							2.9164		ę.	.2290	.1982								
PAGE							•		0784.	.2237	.1703	- 2908 - 7455 - 2057	5470.	0496	9695				
	18)						FOUT		.3780	.e170	. 169	. 1531 - 1739 -	- 1836 -	1763 -	- 1998 -				
	(XEBB18)						• 440.18		3010	1761.	. 1201	- 1272 - 1324 - 3886	3847	2903	- 3036				
							۵.		5000	.2107	.0660	1453	4911	4579	4501				
				1.0460			599.73		.2040	.2367	988	0146 0977	0516 2829	3511	4563	1.0460	2993		
	USEL AGE			1.0180			965 •		.1770					5338		1.0:80	3181		
11-073-	YR ORB I			0666.		3780	a		.1660	.2713	1631	. 0395 8790. 9850. 5953.	.5993	.7021	.7546	.9990			959
- 0A148 (AMES 11-073-1	-140A/E/C/R ORB FUSELAGE		LE CP	.9600	2229 3004 4092	3274 2325 2651 3375	1.3951	LE CP	.1580						.5915	9600	.0157 .0199	4801 4801	3947 2844 2161
			DEPENDENT VARIABLE	.9210	4341 3632 4439	2554 1808 2297 0759	MACH .	IT VARIABLE	.1120	Ş	3. V. S. S. S. S. S. S. S. S. S. S. S. S. S.	. 0556 . 0556 . 0356	. 0522		.0567	98.0	1563	3763 3763 5269	2831 2575 1349
SURE DATA	AMES 11-073(0A148)	. 184	DEPENDER	.8790	5006 3728 4069	1936 1162 2773 .2405	4.299 M	DEPENDENT	.0700	14581		1429 1123 1123 140	.0576		1670.	.8790		3984 5074	1784 1810 0264
TED PRESSURE	AMES			.8210	4639 2600 0837	0276 .0034 .2515 .3459			.0460	.5366	15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5	. 2268 . 2268 . 1870	.1315		.1599	.8210	983	4313 2687 1751	1928 .0541 .2330
TABULATED		BETA (2)	VGE	.7790	5464 4027 2910	0828 .0038 1877 1092	BETA (3)	GE	. 0230	7922	7 de 1	. 4088 3855 3058	.2067		<u> </u>	.7790	.3392	4030 4030	0 4 58 1807 1123
			TR FUSELAGE	.7290	4885 3307	1628 1716 0568		R FUSEL/	.080	1.2399		1484.			.2708	.7290		3531	1349
3.76		= 15.920	1) ORBITER	.6520	3475	1224 1534 0764	= 15.910	11 ORBITER FUSELAGE	. 0000	1.3174					五三二	.6520	.2619 .2569	22% 22%	1016
DATE 10 FEB		ALPHA (B)	SECTION (X/LB		120.000 135.000 150.000 150.000	ALPHA (6)	SECTION (X/LB	PH1 . 000	200 200 200 200 200 200 200 200 200 200	70.000 90.000 120.000	140.000 150.000	165.000 165.000 169.000	180.000	X/LB			135.900 135.900 135.900

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

DATE 10 FEB 73

AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

ALPHA (6, = 15,913 BETA (3) = 4,299

SECTION (1) ORBITER FUSELAGE CP

.9990 1.0180 1.0460 .9600 .9210 .8790 .8210 .7230 .7790 .3520 X/LB

PHI 165.000 -.0586 -.0883 -.065.000 -.0763 -.1061 .3057

PACE 278

(XEBB)

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23			888	3.0180		Q	00+	0809									
PAGE	05 AUG 75			•		. ±970	- 1010 -	. 1881	.0186	1 NO.	0736	0854	0967	•			
		: DATA	SPDBRK L-ELVN PACH	FR/L		.3780	5170	- 1060	0721	• #M ·	. 1259	- 1415	- 1659				
	(XEBB19)	PARAMETRIC	.000 -11.700 .000	550.64		.3010	0563 -	- 1522 -	1304		2287	2304	1816				
		Ω.	RUDDER - BOFLAP - R-ELVN -	.		.2510	0193	2046		1815	3934	2959	3726				
			284	600.12		.2040	 9	2069	.0191 .0723 .0093	.0723	1998	2666	3739	1.0460	5712		
-	USELAGE			- 600		.1770					ţ	.7084		1.0180	5510		
0A148 (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE			σ		.1660	0107	0431 1059	. 0829 . 1821 . 2407	6964	.9222		.9081	0666.			. 2035
(AMES	140A/B/C			1.2478	LE CP	. 1580							1.0510	.9600	3163 3711 .0299	.0087	0509 .0335 .0562 2902
			82 8		T VARIABLE	.1120		0640 0591	. 1242 . 2698 . 288	.5264	.6077		.6054	.9210	2514 1912 0572	.0189 0385	0350 .0657 .1503 .2368
PRESSURE DATA	AMES 11-073(0A148)		ZZZ	948 MACH	DEPENDENT	.0700			.3191	4847	. 5363		. 5292	.8790	1972 2095 1505		.0627 .0627 .1514 .4344
	AMES		1076.6800 .0000 375.0000	= -3.848	_	.0460	. 0642	. 1144	.3022 .4098 .4863	5107	.6453		.6159	.8210	1216 1264		.2994 .4862 .4726 .5053
TABULATED			XMRP **	TA C D	Ж	. 0230	. 1846	. 2235 .4054	. 5652 . 6655 . 887	.8022	.7919		.7333	.7790	0580 0885 0873		.4753 .4753 .4703 .4618
		REFERENCE DATA	SO.FT. IN. IN.	48 BETA	FUSELA	. 0080	.6274		900				1.0082	.7290		.0422	.0989
FEB 76		REFERE	2690.0000 9 474.8000 1 936.0680 1	870.4- =	(1) ORBITER FUSELAGE	. 0000	0404.1						1.4040	.6520	. 600. - 2070	6660	.0354 .0354 .0193
DATE 10 FEE			SREF = 26 LREF = 4 BREF = 9	. «	SECTION (X/LB	P+1 000	20.000	55.000	120.000	140.00 0 150.00 0	151.003 162.003 165.000	169.000 174.000 180.000	X/LB	PH1 .C30 40.000	90.000	110.000 135.000 155.000 165.600

280		3.0180		5740	0538	0569									3.0180		374D	0703 0452	
PAGE		٠		.4970	0947	0914	0027 0081	0386	0507	1656	0556						4970	D971 D860	0173 0185 0517
	191	FRV7.		.3780	0743	0845	1170	1881	1618	1703	169¥				1.38		.378C	059±	
	(XEBB19)	- 550.64		3010	0529	1205	2047	4916	2481	1720	1502				- 550.64		.3010	0498 1054	2460 3672 5501
		۵.		0187	0088	1369	3344	2745	3654	3471	4055				۵.		.2510	0112	3844 3903 3+39
		600.12		.2040	.0027	- 1455	0100	0417	2807	2729	3459	1.0460	5628 3880		500.12		.2040	0081 0252 0879	0445 1813 1556
	FUSELAGE	- 60		.1770					. 5663	5		1.0180	5483 4944		• 600		0771.		
AMES 11-073-1	98 8	ø		. 1660	5.0072	.0462	1269	.3941	. 8524	.9510	.9401	0665.		2591 2398	ø		. 1660	0346 0121 0261	.0658 .0854 .2796
	-140A/B/C/R	1.2478	BLE CP	.1580						•	1.9416	.9600	3136 3498 0251 0381	1551 0553 0308 3137	1.2478	LE CP	.1580		
A - 0A148 (-073(0A148)	MACH .	UT VARIABLE	.1120		0333	1761	9944	.5693		.6119	.9210	2483 2001 .0045 0297	1226 0207 .0441 .1170	MACH	IT VARIABLE	.1120	0436	. 0866 . 1232 . 3388
PRESSURE DATA	=	.192 M	DEPENDENT	.0700	.0236	. 0262		3824	.4960		.5318	.8790	1962 2001 .1033 0485	0533 .0135 .1173 .3507	.293 MA	CEPENDER	.0700	. 0326 . 0033 . 0156	
	AMES	•		.0460	. 055 1850	0060	. 2983 3656	5171	.6116		.6168	.8210	117: 1125 -2928 -2615 -2615	1,401 1,500 1,474 1,587 1,587	. j		.0460	.0503	. 2598 . 2598 . 4186
TABULATED		BETA (2)	AGE	. 0230	1976	3564	5571	+707.	.7±08		.738+	.7790	1.0517 1066 1089 1089 1089 1089	.3621 .4495 .4711 .4767	3ETA (3)	AGE	.0230	.2016 .3014	.5177 .5116
			TR FUSELAGE	.0080	.6294		.7818)			1466.	.7290	0261 0091 .0389	.1651. .1254.	36 +86:	R FUSEL	.0083	.6209	.6361
37.6		-3.97	1 JORBITER	.0000	1.409						1.4094	.6520		.0691 .04.3 .0335 .0254.	E. 5.	: 1CRBITE	. 0000	1.3955	
DATE 10 FEB 76		ALPHA (1)	SECTION (X/LB	1H9 0000. cd	10.00 00.00 00.00	70.000 90.000	유무	181.000	100 gi	180.300	X/LB	74 44 14 10 10 10 10 10 10 10 10 10 10 10 10 10	982.08 982.08 982.08 982.08 982.08 982.08 982.08 982.08	ALPHA (1)	SECTION:	X/LB	114 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	70.000 90.000 120.000

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	
DATE 10 FEB 76	

.5740 Ŕ PAGE .4970 -.0870 -.0986 -.0979 3783 -. 1899 -. 1636 -.2251 (XE8819) -.1788 .3010 -. 1989 -.1650 -. 3920 .8510 -, 3533 -.4151 -.3203 .2040 -.2781 -.3825 1.0460 599.71 AMES 1:-073(0A148) -140A/B/C/R ORB FUSELAGE -.5472 .1770 .4595 1.0180 .9990 .1660 .7673 .9033 .9274 -.3011 O . 1580 .9883 .9600 -.3147 -.3265 -.0743 -.0884 -.1539 ...2627 ...1506 ...1279 DEPENDENT VARIABLE CP 1.247.1 -.2448 -.2007 -.0409 -.0898 -.1251 . 1120 .5998 .9210 .5061 AACH .0700 9044. .5223 .8790 - 1962 - 1998 . 0830 . 0067 -.1511 -.0422 .0657 .8835 4.283 -3.861 -.1176 -.1039 .2899 .2707 9436 4255 4504 .5658 .8210 .6157 .0460 3 -.0530 -.0483 .1423 .2151 .0230 .7373 .3164 .4027 .4357 .4427 .6811 .7790 BETA SECTION (1) ORBITER FUSELAGE .0080 -. 0202 -.0136 . 1239 .9760 .7290 .1310 .1133 -3.984 . 0126 . 0117 . 0593 . 0658 1.3955 .6520 .0554 ALPHA C 13 ALFHA (2) PH1 140.000 150.000 151.000 162.000 165.000 174.000 180.000 .000 40.000 70.000 90.000 110.000 135.000 185.000 165.000 X/LB ፷

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0127 0115 0141 1693 12238 2748 2748

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SECTION (1) ORBITER FUSELAGE

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DEPENDENT VARIABLE CP

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(XEBB)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

		5740				3.0179		.5740	0531	0296						
		.4970	078⁴			à		0784.	0594	0705	0402 0592 0592	0578	03+0	0566		
		.3780	2077			7 FINAL		.3780	0293	0290	1396 1645 1605	1819	2030	2080		
		.3010	2450			= 550.87		3010	0033	0509	1754 2711 4761	3150	2433	2172		
		55.	4262			۵.		5 5 6	.0332	8440	3059 3023 2717	4647	3942	4645		
		.e340	4226	1.0460		599.71		.2040	.0363	0303		.398	3269	4625	1.0460	5267
		.1770		1.0180	5108 5022	* 59		0771.					. 6206		1.0180	5084
		. 1660	.8677	0666.	2376 2378	ø		. 1660	4250·	0273	. 1707 . 2085 . 4186	.8252	.918 .	.9028	0666.	
	BLE CP	.1580		.9600	2556 2948 0170 1592 1230 0443 0105	1.2471	BLE CP	.1580					į	5 ,	.9600	2550
	DEPENDENT VARIABLE	.1120	.5123	.9210	1794 1045 0592 1191 1191 0328 .0538	MACH #	DEPENDENT VARIABLE	.1120		5.0. 5.0.	. 2301 . 4042	4926		.58£	.9210	1747
-3.861	DEPENDE	.0700	.3985	.8790	1201 1373 .0728 .0727 0826 0826 .0596	. 182 M	DEPENDE	.0700	9401.	. 1237	.2294 .2379 .3119	.3735		.4057	.8790	1186
•		.0460	.5005	.8210	0514 0485 .1693 .16512 .1854 .2185 .3675 .3675			.0460	.1562	. 1557	3218 3662 4569	.5100		.5088	.8210	0423
BETA (1)	NGE	. 0230	.6083	.7790		BETA (2)	4GE	.0230	.3067	375. 1497	. 5325 . 5756 . 6128 . 6568	.6393		.6207	.7790	.0118 .0099
051 84	R FUSEL	.0080	.8814	.7290		007 Bit	ER FUSEL	. 0080	.7635		¥357.			.867	.7290	. 0241
	1) ORB! TE	.0000	1.4130	.6520	034 0034 0034 0056 0056	, ,	11098178	. 0000	1.4168					1.4168	.6520	.0191
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 180.000	X/LB	PHI .000 .000 .000 .000 .000 .100 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150 .000 .150	ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	Pf.1	80.000 46.000	55.300 70.000 90.000 120.000	140.000	151.000 152.000 165.000	174.000 :80.000	X/LB	000.04 000.04

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TA - DAI48	4. 6. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.
TABULATED PRESSURE DATA - DAI48 (AMES	
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ć	ò						RNA		.3780	0247		1735 1680 1678	2261	2216	2012			
	(XEQQ19)						550.87	•	3010	0035	0479	2239 3305 5304	2675	2253	2365			
							•		98. 98.		017	3503 3610 3553	4332	4711	4190			
				1.0460					.2040	.0200	0107	. 1027 - 1260	3091	3319	4365	1.0460	5315	
_	ORB FUSELAGE			1.0180			= 599.71		0771.					5379		1.0180	5139	
AMES 11-073-1				0666	8100	2777	o		. 1660	0043	.0463	. 1089 . 1371 . 3106	.7450	á	.887	9666.	90	.331
I AMES 1	-140A/B/C/R		E CP	.9600	0736 1180 1866	2217 1242 0984 3004	1.2471	LE CP	. 1580						0116.	.9600	2574 2548 1314 1614	3243 2147 1850
TABULATED PRESSURE DATA - DAI+8 (DEPENDENT VARIABLE	.9210	0707 0876 1586	1810 0911 0:77 0584	MACH =	IT VARIABLE	.1120	- 0067	.0139	. 0508 . 0853 . 11.25 . 8515	.4315		.5043	.9210	1785 1377 1143 2036	2845 1694 0986
JRE DATA	AMES 11-073(0A148)	. 182	DEPENDEN	.8790	.0235 0187 0910	0795 .0059 .0679 .2889	4.263 MA	DEPENDENT	. 0700	1054	9960.	1400 1400 1604 1604 1604 1604 1604 1604	3272		.3950	.8790	1231 1313 0069 0735	1691 0770 .0210
O PRESSI	AMES		_	.8210	.1681 .1272 .1251	.1747 .3758 .3943	.4875 #		.0460	1580	1 P	. 255 . 256 . 256 . 256	.4692		.5040	.8210	0512 0335 .1607 .1183	. 10243 . 3286 . 3384
TABULATE		(S) V	M	.7790	1226 . 0761 . 2102	.3234 .3399 .3590	. 3732 BETA (3)		. 0230	.2983	0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40	4335 4685 7505	.5882		9.	.7790	.0110 .0204 .0595 .0768	¥ 8 8 8 8 8 8 8
		17 BETA	FUSELA	.7290	1107	.0302	E	FUS FUSE		4747.		.6101			.6470	.7290	.0273 1164 0481	.0358
76		007	1.0RBITER FUSELAGE	.6520	0057	.0267). 4510.	1)ORBITER	0000	1.4048					8404	.6520	.0034 .0675 0077	.0325
DATE 10 FEB		ALPHA (E)	2	X/LB	PH: 70.080 90.000 105.000	110.000 120.000 135.000 150.000	5	NO		PH1	20.000	75.000 75.000 90.000	120.000	151.000	1771.000	X/LB	PH1 .000 .70.000 90.000	110.000 120.000 135.000 150.000

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SECTION	SECTION (1)ORBITER FUSELAGE	TER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	0180	1.0460					
PH1 165.000 180.000	.0022 0059	. 0959	. 3453 . 3552	.3843	.2128	0111	3345								
ALPHA (3)		3.859 8	BETA (1	E- = (-3.873 M	MACH	1.2484	ø	. 60 <u>.</u>	600.53	۵	14 080	7700	•	4100
SECTION (1) ORBITER FUSELAGE	1108811	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP				•				7.00.5
X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	040	0.00	3010	37R0	000	047.5
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. 000 20.000	1.4025	.8831	.4167	.2845	1590	9080		.0547		.0475	6490.	St +3.	.0321	0110	0174
55.000			.6075 .6799	3492	3246	1345		100 100 100 100 100 100 100 100 100 100		.0363	. 0289	.0082	.0487	0168	003t
70.000 30.000		11.00	.6923	9644	3286	1859 187				.1676	2193	0797	0747	1060	
120.000			65.18	.4692	31.96	7.75 827.:		. 2091 . 5091		. 1233	2162	1337	1280	- 1019	
150.000			.5675	B#£#.	.2689	108		.8793		.2372	5095	3960	1946	1039	
162.000 165.000									. 5153 . 6499	į			i		
159.000							0630	9119.		3/21	4563	- 3585	2041	0622	
180.000	1.4025	五	.4879	1004	.2706	.4103	9206	.8299		4713	4710	2893	2301	0665	
л . В	.6520	.7290	.7790	.8210	.8790	.9210	9600	.9990	1.0180	1.0460				•	
Ī															
000. 40.000	.0538	.0713	. 0862 4477	. 0345 CASO		1042	1923	·	4755	4959					
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180.000	0079	.1005	. 000 000 000 000	3148			2869								

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PAGE		•		.4970	0056	0224	- 110 - 1011	10ge	0569	0479	0436						•		. 1970	0114	0422	1095 0933 0684
	(61	FRVL		.3780	.0273	.0297	1336	2186	1876	2138	2240						TAN'T		.3786	.0262	.0075	1852 2203 1710
	(XE8819)	550.41		.3010	.0521	.0169	1509	4607	3689	2931	2633						14.056		3010	1000	6800.	2056 2686 5143
		<u>.</u>		.83.0	.0786	.0460	2634	2682	5119	4374	5120						•		.2510	.0608	.0429	3092 3323 3473
		.53		.2040	.0724	986	. 1.55 . 0465	.0053	3265	3584	5114	1.0460	4902				600.53		.2040	9440	36	. 0863 0341 0863
•	FUSELAGE	. 600.53		0771.						5961		1.0180	8694 8444				. 600		.1770			
- 0A148 (AMES 11-073-1	8	O		. 1660	.0561	1087	. 1937	.4381	. 7933	939	.8632	0666.		Í	3098		a		. 1660	.0±0.	1270	1380 1738 3415
3 C AMES	-140A/B/C/R	1.2484	AE CP	1580							.9362	.9600	2003	1080	- 2544 - 1940 - 1535	3105	1.2484	BLE CP	.1580			
	11-073(04148)	MACH	NT VARIABLE	.1120	6	1102	1645 1855	3054	.3961		.4221	.9210	1991	- 1525	2559 1459 0682	00100	MACH .	NT VARIABLE	.1120		288	. 0837 . 0837 . 2201
PRESSURE DATA	5 11-073	.178 M	DEPENDENT	.0700	185	2039	. 2380 . 2380 . 2897	. 24 IS	. 2 ⁴ 95		.2869	.8790	0373	. 2037 - 2037	1108 0377 .0261	. 2309	4.253 M	DEPENDENT	.0700	1987	24.7	1599 1599 1473
ED PRES	AMES			.0460	.2836	3056	. 3463 . 3449 . 63	.4005	.4232		.4055	.8210	.0383	.0316 .0316 .0316	103+ 1495+ 1405+	.4626	•		.0460	PCS.	. 2567.	85.50 8.00 8.00 8.00 8.00 8.00 8.00 8.00
TABULATED		BETA (2)	IGE	.0230	4212	5363	. 5804 5804 7887	5790	.5356		5046	.7790	.0976	0607 0607	. 2163 . 2283 . 345	5. E.	BETA (3)	V GE	.0230	. 4143	2. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	.4672 .4722 .4891 .5014
			R FUSEL/	.0080	9068		7193	3			.7291	7290	.0823	1867 1334	0335	.0353		R FUSEL	.0080	.8790		.5733
9. TG		3.906	1) ORBITER FUSELAGE	. 0000	1.4065						1.4065	.6520	.0360	0715	9510	200 200 200	3.928	1) ORBITER FUSELAGE	0000	1.3949		
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 .000	20.000 40.000	55.000 70.000	120.000	150.000	162.000	174.000 174.000 180.000	X/LB	PH1 .000	70.000 90.000 105.000	110.000 120.000 135.000	165.000	ALPHA (3)	SECTION (X/LB	PH1 .000	29.99 29.99	55.000 70.009 90.009 120.000

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FUSELAGE
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11-073(0A148)
AMES

		5740							3.0223		5740	.0463	.0683			
		.4970	0547	0571	0701				ı		0764.	. C.488	.0493	1499 1751 2880	1151	0813
		.3780	2160	2411	2274				RN/L		.3780	. 0933	.1160			2148
		.3010	3226	2769	2851				- 550.87		.3010	. 0925	. 10843	0571		+504
		.2510	5034	5173	4523				•		.2510	.1021	1291	17581960	55H7	5142
		. 2040	2670	3819	4913	1.0460	4940 3195		600.07		.2040	9760.	1176	1653 1653	. 2036	4179
		0771.	ES#4.	.5185 25		1.0180	4745		• 600		.1770					. 6008 . 6274
		. 1660	. 7269	. 83#3	.8518	.9990	į	3450 3450	o		.1650	1147	1888	2.5002 2.003 2.003 2.003	.8582	.8820
	BLE CP	.1580		8	6166	.9600	1968 1589 2136	4207 2549 2195 3219	1.2474	XE CP	.1580					.8936
	DEPENDENT VARIABLE	.1120	3441		. 3986	.9210	1006 0680 1543 1782	3312 2065 1491 0509	MACH ==	DEPENDENT VARIABLE	.1120	1897	. 2196 196	14.0 6.40 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8	1723.	
4.253	DEPENDE	.0700	.2231		.2768	.8790	0376 0503 0775	1858 1306 0457	-3.877 MJ	DEPENDEN	.0700	9559 97.70	3250	3111	.1864	
		.0460	.3901		.4176	.8210	.0362 .0536 .0195 .0132	0215 -2452 -2409 -3084	#		.0460	3791	15. 10. 10. 10.	.4578 .4407 .3937	.3411	
BETA (3)	AGE	. 0230	£+6+.		2060	.7790	.0885 .1069 2091 0131	.1687 .2707 .2636 .2635	BETA (1)	JOE	. 0230	5479	.6982	.6851 .6536 .5701	1654.	
3.928 B	1) ORBITER FUSELAGE	.0080			.7138	.7290	.0812 1964 1264	.0511		R FUSELAGE	.0080	1.0067		.8108		
		.0000			1.3949	.6520	.0176 .0608 0701	.0038 0023 0103	- 7.85!	1 JORBI TER	.0000	3716				
ALPHA (3)	SECTION (X/LB	PHI 140.000 150.000	165.000 169.000 174.000	180.000	X/LB	.000 40.000 70.000 90.000	150.000 155.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PHI .000 20.000	40.000 55.000	70.000 90.000 120.000	140.630 150.030	167 . 000 162 . 000 169 . 000 174 . 000

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	1070		. 0653				•		670		.0523	.037	2007 1744 1687	0717	0511	i	₽ 1.		
		96/0.							2300	300	.0879	.0831	1284 1865 3582	1948	2057		2206		
		.3010	.3261							9105.	.1033	.0739		4227	3334		3007		
	,	183								Ç.	.1024	. 1138		5557	4826		5498		
		040 040	5137	1.0460	4631					040a.	.1050	. 1033			4116		5493	1.0460	4675
		0771.	•	1.0180				• 600		1770					5695			1.0180	4443
		. 1660	.7962	0666.		2457		σ		. 1660	11.39	1179	. 1597 . 1940 . 2400	.7667		.8358	.8206	.9990	
	LE CP	.1580		.9600	1371 1368 0395 1283	2773	3125	1.2474	RE CP	. 1580						000	2808.	.9600	1410
		.1120	. 2329	.9210	0233 .0122 1247 1656 2915	2433	.0773	# HO		.1120		1433	98.50 98 98.50 98.50 98.50 98.50 98.50 98.50 98.50 98.50 98.50 98.	. 15t.			0440·	.9210	0229 . 0032
7.18	DEPENDEN	.0700	.1786	.8790		1115	. 2540		DEPENDE	.0700	.2699	2396	23.75 23.75 21.88	1941			. 1844	.8790	.0485
-3.1	_	.0460	.3224	.8210		.0781	3013. 3014.			.0460	3850	3783	3767	3329			.3210	.8210	. 1283
TA C 13	ĸ	. 0230	.3737	.7790			. 1241 . 1858 . 1858	_	301	.0230	5797	5578	2.00 v 2.00 v 3.00 v	9794. 5864	5035		.3850	.7790	. 1900
	A FUSELA	.0080	.6082	.7290			0286		IR FUSEL/	.0080	1900		1 999.				. 5902	.7290	. 1462
7.8	1 1 ORBITE	.0000	1.3716	.6520		1728	0752 0412 0329	= 7.9	1.10RB:TE	.0000	900	1.3/68					1.3728	.6520	. 1165
ALPHA (4)	SECTION	X/LB							SECTION (X/LB	F	20.000	25.080 25.080 00.080 00.080	120.000	150.000	165.600	174.000	X/18	PH1 .009
	(4) = 7.851 BETA (1)	(4) = 7.851 BETA (1) = -3.877 ION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP	(4) = 7.851 BETA (1) = -3.877 ION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP .0000 .0080 .0230 .0460 .0700 .1120 .1580 .1680 .1770 .2040 .2510 .3010 .3780 .4970	(4) = 7.851 BETA (1) = -3.877 ION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP .0000 .0080 .0230 .0460 .0700 .1120 .1580 .1660 .1770 .2040 .2510 .3010 .3780 .4970 .0000 .0080 .0237 .3224 .1786 .2329 .796251375005322122240653	(4) = 7.851 BETA (1) = -3.877 ION (1)ORBITER FUSELAGE .0000 .0080 .0230 .0460 .0700 .1120 .1580 .1660 .1770 .2040 .2510 .3010 .3780 .4970 .000 1.3716 .6082 .3737 .3224 .1786 .2329 .7962 -51375005322122240653 .6520 .7290 .7790 .8210 .8790 .9210 .9600 .9990 1.0180 1.0460	10N (1)0RB] TER FUSELAGE	1000 1.0716 SETA (1) = -3.877	10N (1)0RB1TER FUSELAGE	10N (110RB1TER FUSELAGE DEPENDENT VARIABLE CP 10N (110RB1TER FUSELAGE DEPENDENT VARIABLE CP 1000	10N 1 10RB1TER FUSELAGE 0000 0.0000 0.0230 0.0460 0.0700 0.1120 0.1580 0.1770 2.0040 2.510 3.010 3.780 .4970 0000 1.3716 6.082 3.737 3.3224 1.796 2.2329 3.796251375005322122240653 0000 0.1084 1.339 1.773 1.332 0.022183 0.173 203 0.10324631 0000 0.1084 1.339 1.773 1.332 0.039 0.10221389 0.000 0.351 0.020 0.023 0.173 0.0221847 0.000 0.000 0.17281596 0.172 0.023 0.172 0.023 0.024 0.073 0.023 0.004 0.073 0.000 0.000 0.000 0.0	1.3716 1.0880 1.289 1.189 1.180 1.	1.3716 S. S. S. S. S. S. S. S	1.5716 1.5081 EETA (11) = -3.877	1001 1.0781 FE FA (1) -3.877 1001 1002 1003	1.9716	1.271 1.0780 1.282 1.736 1.282 1.736 1.282 1.736 1.282 1.736 1.282 1.736 1.282 1.736 1.282 1.736 1.282 1.2	1.5716 1.5628 1.737 1.3229 1.796 1.660 1.770 1.040 1.8510 1.3910 1.770 1.040 1.8510 1.0450 1.2524 1.0653 1.786 1.2524 1.0650 1.0450	1.2716 1.0500 1.0520 1.7720 1.120 1.1500 1.1500 1.1700 1.0500 1.	1.5 1.5

.0505

.5740

DATE 10 FEB	58 76 5		TABULATED	-	PRESSURE DATA		- 0A148 (AMES 11-073-1	11-073-						PAGE	882
				AME	AMES 11-073(0A148)	(0A14B)	-140A/B/C/R ORB		FUSELAGE			(XE8819)	(61		
ALPHA (4)	Ħ	7.971 E	BETA (2)		. 182					•					
SECTION	1 1 3 QRB 1 1	1) OPBITER FUSELAGE	AGE.		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.040.					
PHI 70.000 90.000	! 348 0745	2534	3170 2588 0310	0990 0157	1119 2261 2905	1869 2021 3142	1250 2293 2845								
135.000 135.000 150.000 165.000	0672 0164 0133	0890	.1096 .1165 .1512 .1959	.5049	1590 0846 0203	2893 1947 1240 0570	2624 2457 1938 3220	3232 3232							
ALPHA (4)		7.972 8	BETA (3)	*	.253	# CH	1.2474	σ	. 60	500.07	•	550.87	RN/L	•	3.0223
SECTION (110RBITER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	.2510	.3010	.3780	0.4970	.5740
PH1 .000 .20.000	1.3592	. 9950	.5336	3859	.2625 2274	ā		.1023		.0887	. 1892	9101.	.0880	.0469	.0422
40.000 55.000			1521. 1843.	3337	. 2291 . 1965	1228		.0973		.0573	5080.	.0599	.0573	.0071	.0271
70.000 90.000 120.000		.5219	.4576 .4538 .4314	24.43. 24.45. 807.9.	1574	.0678 .0668 .1301		1285 1818 3643		. 0582 0582	2587 2994 3337	1869 2286 4938	. 1852 . 2359	2094 1667 0970	
150.000			.3940	.3117	. 1262	.1773		.7009	1783	1872	5594	. 3615	- 1961 -	0520	
152.000 165.003 169.000								.8003	4965 4965	4211	5368	- 3076	2257	0463	
	1.3592	.5691	.3856	.33!!	.1726	.2090	. 8368	.8180		5318	4916	3151	2309	0661	
X/L8	.5520	.7293	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 .030 40.039	9770. 7780.		.1799	1264		0305	- 1474 - 1494		-,4476	4682 3096					
70.030 90.009 175.030	1211 0590	2879		0974 0631		2463 1966 3101									
125.609 125.609 155.000	0146	0678	. 1917 . 1917	0949 .2387 .3364	2148 1476 0927	3576 2399 2026	4579 2894 2589	-, 4236 -, 3353							

(XE8819)

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

			ı	3.0228	1	.5740	.1368	.1600									
						0. 100 100 100 100 100 100 100 100 100 1	.1279	.1305	1476	4317	1531	1008	0598				
				RN/L		.378n	.1651	.1826	. 1523		2699	- 2344	. 2044				
				550.41		3010	.1400	.1604	0488		5292	4438	3362				
				a		.2510	3441.	1991	1214		5912	5521	5302				
		1.0460		600.41		.2040	.1615	1672	2060	1258	1087	+194	5447	1.0460	4412		
		0180		= 600		.1770						.599 1983 1983		1.0180	4191		
		ე666 .		o		. 1660	. 1933	. 2016 3275	. 1978 . 1898 	.4652	.8405		. 7626	.9990			2814 2814
	LE CP	.9600	3373	1.2483	LE CP	. 1580							.7829	.9600	0935	1031 1752 2097	2028 2028 2546 3330
	DEPENDENT VARIABLE	.9210	1326	MACH =	IT VARIABLE	.1120		. 2335 . 3009	3.05 3.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1	1756	.1388		. 1246	.9210	.0336	173 2513	2633 1778 1687 0200
4.253	DEPENDEN	.8790	.1187	-3.844 MA	DEPENDENT	.0700	.3584	. 3548 . 4119	.3861 .3168	1082	.1143		.1055	.8790	1234	- 1149 - 2553 - 2582	1729 1369 0745
ŧ •		.8210	.395¥			.0460	**8*	.5077	.5110 .476	. 4 031	.2304		. 2295	.8210	9.128 86.128	. 2055 - 2055 - 2056 -	.0540 .1713 .3083 .5544
HETA (3)		.7790	.1784	BETA (1)	IGE	. 0230	.6635	.7061 .7766	.7316	. 507.4 57.75	.3369		0185	0611.	8063.	4085 3551 2824	2.003. .003.
	R FUSEL	.7290	¥\$00°.		11 OPBITER FUSELAGE	.0080	1.1122			749E			9294.	.7290	+175.	3786	2024 2064 0484
579.7 •	1109817E	.6520	0232 0405	= 11.905	1.10RB1TE	0000	1.3171						1.3171	.6520	1905	2508 1649	1927 1044 0559 0506
A. DUA	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (א/רם	PH;	20.000	55.000 70.000	90.000 120.000	140.000	151.000 162.000 165.000	169.000 174.000 180.000	X/I.B	PHI . BAD	70.000 90.000 05.000	110,000 120,000 135,000 150,000 165,000

(XE8819)

TABUL
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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

ALPHA (5) = 11.907		BETA (3)	u	4.269										
E	SECTION (1) ORBITER FUSELAGE	NGE		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.170	.2040	.2510	.3010	.3780	0.794.	57.0
		. 2902	.2291	4990 .	1860.		.6640	.4320	1513	5898	3995	1815	0547	
							.7614	4852	4515	9±0±	3260	1946		
.3121	1414.	.270 4	.252	.1093	. 1144	.7481	.7940		5569	5177	343!	2149	0539	
.6520	.7290	0677.	.8210	.8790	.9210	.9600	7007	180	1.0460					
907 907	8275.		. 2097 Reced	1128	.0232	6,50°-		4201	4453					
2114	3597	4180	- 1829 - 1498	- 3.588 - 3.654	2974	2028		•						
Y E	can -		- 1004		- 4009 - 4044	53/1	1.4.194							
9 8	3001	.0796	1892	- 1560	2372	2932								
0367	1.0341	0926		1326	1672	- 3501								
0520	0479	. 0699	. 5302											

TAUL COL	ES AUG 75)	
	(XE8820) ((25 AUG 75)	DADAHETDIC DATA
IABULATED PHESSURE DAIA - DAI48 (ARES 11-0/3-1)	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE	a tac fifth

				ρ Ω	Þ	r													
		3.1893		5740	0257	L.9													
		•		.4970	100B	1486	0045	57.5	.9481	0408		0439							
<u> </u>	SPOBRK - L-ELVN - MACH	RN/L							1			·							
10 04		60		.3780	1287	1545	0835	1103	1651	1937		2265							
PAKAITE INIC	.000 -11.700 .000	707.48		.3010	1457	2013	1724	- 9-03 - 9-03	3287	2812		2315							
L	* * * *	•		.850	. 0852	2364	3962	3500 2842	5138	4176		4456							
	RUDDER BOFLAP R-ELVN	۵												_	_				
		601.66		.2040	0505	2507	0146	0788	2840	4397		5604	1.0460	6470	- 5563				
				173					Ċ	. 5992			1.0180	7043	5333				
		o		. 1660	022 022	1610	1091	. 1516	.8288		.8862	.8156	0666.				2469		
		1.1022	PLE CP	.1580							9		.9600	3770	4564	0612	1548	0522	
	929 202	MACH .	DEPENDENT VARIABLE	.1120	tu u	0708	.2427	. 4925 . 4925	.5786			.5767	.9210	3034	2505	0845	1048	.0813	6031
		-3.843 M	DEPENDE	.0700	.0056	0133	29.75 29.75	.4933	.5+55			.5334	.8790	وچ ₊ چ. ا	.0781	. 9439 1. 9439	1684	. 0530 . 0530 . 0530	965
	375.			.0460	. 0722	.0823	3893	. 5044	4449.			.6120	.8210	1515	3506	35.95	.4236	9	.6443
V 1	XMRP YMRP ZMRP	BETA (1)	AGE	. 9230	1278	. W-87	. 5240 . 5240	.7019 9:77	STTT.			.7195	.7790	0586	0781 .2646	3122	4734	1000 1000 1000 1000 1000 1000 1000 100	016+
MEFERENCE DATA	50.FT. IN. IN.		R FUSEL	.0095	.5485			.8788				.9753	.7290	0238	.05%6	.1278	.2190	.293 .	.2980
HEFE	2690.0000 474.8000 936.0680 .0300	-4.047	110RBITER FUSELAGE	.0000	1.3157							1.3157	.6520	1690.	35. 1.	. 1613	.1506	1710	. 1695
	SREF	ALPHA (1)	SECTION (X/LB	PH1 .000	£0.000	70.00	120.000	150.000	162.000 162.000 165.000	169.000	180.000	x/LB	1 H 4	70.000	25.000 201.000 201.000	120.000	1000 1000 1000 1000 1000 1000 1000 100	180.000

5740 -.0257 -.0187 96 -.0235 -.0335 -.0338 £970 -.0934 -.1120 -. 014g 0724. -. 0208 Ž -.1172 -.1089 -.1489 -.2235 3780 - 1411 -.2120 -.2295 3780 (XE8820) 707.48 707.48 -.4008 -.4008 -.6153 .3010 -. 1869 -.2852 -.2264 -.2039 .3010 -.4576 -.4263 -.3928 Š -. 1904 -. 0846 -.5109 -.4493 -.3510 **100** -.0459 -.0834 -.1742 -.1032 -.0858 -.1970 -.1547 .2040 -.6733 -.4458 1.0460 -.4790 .2040 601.66 601.66 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 170 .4585 5333 -.6944 -.5059 1.0180 .170 -.0105 -.0351 -.1039 -.0188 .0461 .0760 . 1660 .7630 .9990 -.3997 .659 .8488 .1660 a = 1.1022 .1580 -.2410 -.1378 -.1239 -.3309 .9668 .9600 ₹ 1.1022 DEPENDENT VARIABLE CP .1580 DEPENDENT VARIABLE CP -.0413 -.0329 .0578 .1532 .2045 .1120 -.2971 -.2584 -.0733 -.1332 -.1900 -.0911 -.0349 .0206 .5361 .5815 .9210 .189 MACH MACH .0700 .0218 -.0051 -.0061 .1258 .2091 .2695 .3869 -.2424 -.2491 .0366 -.0203 -.1048 -.1793 -.0871 .0165 .5070 . SF 33 .8790 .0700 4.285 0693 0693 0802 2001 2851 3552 5051 .0460 .68 ¥ .8210 .6836 .0460 <u></u> 3 . 0230 1423 1592 3002 4305 4305 5178 5918 6850 .7316 4158 4681 5063 5083 5121 .7790 .0230 BETA SECTION (1) ORBITER FUSELAGE BETA SECTION (1) ORBITER FUSELAGE .0080 .¥16 .5561 9659 .7290 .1126 ָּאָבָּא. מַלָּאָ -.0309 .3038 .3158 0620. -3.971 -3.998 .0000 0596 0037 1300 1.3231 .6520 .1778 .1811 .1685 0000 1647 .3231 ALPHA C 13 20.000 55.000 90.000 90.000 1120.000 1151.000 165.000 165.000 165.000 165.000 165.000 165.000 .000 70.000 96.000 105.000 1105.000 1135.000 1151.000 1155.000 1165.000 ALPHA C X/LB Ŧ

-.0332

- 1056 -. 0952

-.1393

-.0867

-.1356 ¥ ..

-.0399 -.0622 -.1330 -.1461 -.2962

-.0152 -.0196 -.0620 -.0354 -.0020 -.0067

-.0549 -.0219 .0256 .1047 .1167

.0220 .0127 .0060 .0679 .1249 .1889

.0657 .0657 .0536 .1273 .1806 .2424

.5409

1.3071

20.000 20.000 40.090 55.009 70.099 90.009

-.0176

-.1160 -.117-5X15.-

TABULATED PRESSURE DATA - DAIYB (AMES 11-073-1) AMES 11-073(DAIYB) -140A/B/C/R ORB FUSELAGE (XE8820)	BETA (3) = 4.285	AGE DEPENDENT VARIABLE CP	0472. 0794. 0872. 0103. 0169. 0709. 1710. 1580. 1580. 1580. 1580. 1580. 1580. 1580. 1580. 1580. 1580. 1580.		.8126	.914837154755 0214 355735764190 -35763767.	.7790 .8210 .8790 .9210 .9600 .9990 1.0180 0.460	073315342455309938346564 06721427228427483895470f. .2204 .2854008013481828 .2743 .2933050319822059 .3242 .2349168923352613	.3541 .148428083028387 2 .4377 .4938164420582365 .4652 .6025053715892280 .4760 .147807673468	BETA (1) = -3.867 MACH = 1.1011 0 = 601.17 P = 709.39 FN/L = 3.1906	AGE DEPENDENT VARIABLE CP	C473. 0784. 0878. 0108. 0165. 0405. 0771. 0881. 0811. 0700. 0840. 0830.	. 1637 . 2163	951. 1661.	-0.113 -0.436 -4557 -0.107 -0.3486 -0.6117 -4156 -0.1847 -0.0567 -0.5436 -0.6117 -4156 -0.1847 -0.0567	. 5673 1940 3870 2194 0528 . 5529
E A	(3) •		.0460	.5575		.6139	0128. 0510	.07331534 .06791427 .2204 .2854 .2743 .2933 .3242 .2349	. 1484 . 4938 . 6025 . 6330	E- = (1)		. 0460	. 1637 . 2163	. 1675 1475 1675 16476	741 .5436	
10 FEB 76	A. PHA (1)3.998 BE	SECTION (1) ORBITER FUSELAGE	0000 0000	PHI 140.000 150.000 151.000	000. 000.	.000 .000 1.3071 .9452	77LB .6520 .7290	PHI .000 .06570229 .000 .0482 70.000 .1544 .1220 90.000 .1769 .1723	188888	38 920'+ = (2) #Hd	STOTION (110PRITER FUSELAGE	0800° 0550°	888	770, 170 770, 170 80,	7 () () 7 () ()	

PAGE 295				.4970 .5740	0473							'L = 3.1906		. 4970 . 5740	09840330	09230099	0578 0495 0460	ZCZO		0340		0330		
	ê			.3780	2564							RN/L		.3780	1868	0826	1897) 6	e050	2395		2516		
	(XE8B20)			.3010	3063							708.39		.3010	0885	1206	2199		384ë	3019		2783		
				50.	5156									500 500 500 500 500 500 500 500 500 50	0339	++60	4379		5771	5172		6153		
				.2040	6041	1.0460	6549					601.17		.2040	.0058	075. 1270		2174	4812	+764		5588	1.0460	6678
•	JSELAGE			.1770	·	1.0180	6648					= 601		.1770					.4423	.5075			1.0180	6502 4868
(AMES 11-073-1	/R ORB FL			. 1660	.7733	0666	•		3808			o		. 1660	.0338	0001	.0978	. 3243	.7378		.8289	.8:17	.9990	
(AMES	-140A/B/C/R ORB FUSELAGE		LE CP	. 1580		.9600	3099	0848 1181		1196	3226	1.101.1	LE CP	.1580							9000		.9600	3379
- 0A148			T VARIABLE	.1120	.5015	.9210	2081				. 0649	MACH .	IT VARIABLE	.1120		. 0238 . 0635	. 2073 . 2380	3940	4799			.5127	.9210	2217
TABULATED PRESSURE DATA	MES 11-073(0A148)	198	DEPENDENT	.0700	.4420	.8790	1539	0407 7770	1406	0994	57.45.	.183 MA	DEPENDENT	.0700	.0825	.0487 .0919	.1936 .2289 .2475	.3487	.4201			.4502	.8790	1624 1679
ED PRESS	AMES	= -3.867		.0460	.5110	.8210	+350		2892	4317	.4856			.0460	.1761	. 1664 1924	. 321.1 3636.	.4615	.5195			.5192	.9210	0740
TABULAT		TA (1)	냂	.0230	.6052	.7790	.0149		3876	5544.	7.563. 4004.	BETA (2)	J.	.0230	26+1	.4078		.6313	.6358			.6230	.7790	.0054 .0109
		35 BETA	R FUSELA	.0080	.8523	.7290	.0503	1499	8120	1650	0715.		R FUSELAGE	.0080	.6933		.7233					.8465	.7290	.040.
76		=035	1) ORBITE	. 0000	1.3293	.6520	.0833	.0305	1771	1020	.0784 .0922	059	1) ORBITER	.0000	7522							1.3354	.6520	.0823
DATE 10 FEB 76		ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 180.000	x/LB	PH1 .000	70.000 90.000	110.000	1 %5.000	165.000	ຄ	SECTION (X/LB	PHI	20.000	55.000 70.000	120.000	150.000	162.000	169.000	174.000	X/LB	PH1 .000 40.000

(XE8820)

E 650	<u> </u>	-		.183										
(1) ORBITER FUSELAGE DEPEN		OEPE	OEPE	ğ	DEPENDENT VARIABLE	BLE CP								
.6520 .8210 .8750 .8790	.7790 .8210	8210	.87	8	.9210	.9600	ე666 .	1.0180	1.0460					
.01891481 .1274 .2363 .0019 .04740717 .2036 .21000474 .2723 .19641286	. 2363 - 4751. - 2036 - 2100 - - 4991. 2753.	2363 2100 - 1964 -	047	១៩២	0869 1438 2049	1322 1550 2326								
.0692 .0790 .3384 .20591760 .3811 .41870988 .0835 .1802 .4045 .45240233 .0939 .2022 .4230 .5716	.2059 .4187 .4524 .5716		176 098 023	00M-	2269 1414 0902 0295	2718 1859 1703 3253	4035 3307							
052 BETA (3) ≈ 4.261	(3) =	ħ	.261	Σ	MACH	1.1011	0	80	601.17	G.	- 708.39	BN/L		3.1905
DEPENDENT		DEPE	DEPE	ğ	NT VARIABLE	BLE CP								
0000 .0080 .0230 .0460 .0700	.0460		.070	0	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	.4970	.5740
. 1699	. 1699	1699 1499	.082	<u> C</u>	1756		.0228		.0067	0436	0887	0939	1074	0443
158 4	1584		5.0 0.0	MM	.0550		. 13£1		. 0505	0906	1328	1020	0965	1600
		•	1 4 4	າທາ	#8#1.		04.70		0829	4878		2100	0511	
5385 .3675	3675	675	.253		3155		. 2262		. 2595 - 2595	+8+7	5688	1702	0394 0285	
£775. 8574. 8775.	. 4728	728 .	.3739	_	.4329		.6592		54534 5478	-, 5929	3347	2628	0405	
							7181.	4298	5054	6186	3009	2793	0+36	
3203 .8280 .5199 .5170 .4419	.5170	170	1 7 7	m	.5036	CC/B	.7992		6139	4983	-, 3035	2497	0511	
9978. 0128. 0677. 0827. 0528	.8210	210	.879	_	.9210	.9600	0666.	1.0180	1.0460					
.0894 .0516 .008606451555 .0302 .019505761736 .04220951 .1107 .20790464 .07450133 .1704 .19611099	0645 0576 -2079 -1961		1555 1736 1099 2024		2273 2018 1593 2113	3147 3185 2015 3010		6593 5222	4304					
	.3989 .4:69		280; 1899; 089;				4431 3783							

0A148
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DATA
PRESSURE
TABULATED
10
76
FEB

DATE 10 FEB	B 76		TABULATED	-	PRESSURE DATA	- 0A148 C		AMES 11-073-1	•					PAGE	183
				AMES	AMES 11-073(0A148)		-140A/B/C/R ORB FUSELAGE	/R ORB F	USELAGE			(XEBB20)	320)		
ALPHA (2)		052 BE	BETA (3)	<i>s</i>	4.261										
SECTION (1) ORBITER FUSELAGE	1 JORBITE	TR FUSELA	GE GE		DEPENDENT VARIABLE	T VARIA	R CP								
x/LB	.6520	. 7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 165.000 180.000	.1173	.2199	.3999 .4139	-490S	.1160	1232	3410								
ALPHA (3)	3.8	3.856 BE	BETA (1)	ii Ki	-3.869 MA	MACH =	1.1013	a	= 601	601.26	۵.	= 708.16	5 RN/L	•	3.1838
SECTION (1) ORBI TE	1) ORBITER FUSELAGE	وي		DEPENDENT VARIABLE	T VARIA	RE CP								
x/LB	.0000	. 0080	. 0230	.0460	.0700	.1120	1580	.1660	.1770	.2040	85 10	.3010	.3780	.4970	.5740
PH1 .000	1.3181	.8219	.3790	. 2635	. 1675			0830		.0469	.0149	0362	0270	0572	0439
20.000 40.000			.4235 .5706	. 328 28. 1	. 1453 . 2153	.1570		.0913		0115	0134	-,0364	0022	0705	. 0077
55.000 70.000 90.000 120.000		.8262	.6470 .6624 .6672 .5374	. 4.25 . 4.26 . 4.567 . 4.567	.3335 .3335 .3394 .3633	.2930 .3218 .4140		. 1911 . 1911 . 2258 . 4176		. 0852 . 0310 . 0020	3236 3397 3122	1276 1829 5356	1378 1973 3081	1075 1093 1739	
150.000			.5563	.4357	.3489	.4336		.7877	7000	0787 3162	6701	4902	2049	0820	
151.000 162.000 165.000								.8165	.5318	5452	5991	4477	2195	0653	
174.300	1.3181	.7181	908+.	.4085	. 34 13	400a.	.8972 57	.7306		6525	5848	3516	2415	0509	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					•
1163	<u> </u>	.1677	1250	.028¢		1691	2810		GF 34	6572					
40.000 70.900 90.000	. 1118 0549 0172		3129 0797 1351	.0389 .1570 .1395	1098 - 0217 0536 1328	1062 0638 1715 2462	2954 0550 0877		5356	3787					
110.000 120.000 135.400	0692		3147	.3003		2396	2505 1904	 한 년 : 							
150.000 165.000 180.000	. 0576 . 0567 . 2720	\$0\$1.	45.8 40.8 40.8 40.8 40.8 40.8 40.8 40.8 40	. 4040	. 1987	.0189	3331								

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE ິດ BETA 3.924 ALPHA (3)

-. 027 3.1838 .4970 -.0523 -.0996 -.0923 -.0901 -.0715 Z Z Z -.2009 -.2465 -.2156 .3780 -.0306 -.0216 -.2215 -.2385 -. 1986 708.16 708.16 -.0483 -.2082 -.2616 -.5931 .3010 -.0305 -.4596 -.3497 -.3308 -.3754 -.4056 -.3778 -.0131 .035 . 0240 -.6673 -.6755 -.5692 .0538 .0312 .0314 .0354 .0276 .0563 .1096 .2090 .2040 -. 5492 -.6735 1.0460 601.26 601.26 .1770 .4253 -.6320 1.0180 . 1660 .0985 .0933 .1051 .1348 .1358 .1629 .3442 7088 .7883 .9990 .7685 -.3979 ø .189 MACH = 1.1013 -.2718 -.2725 -.1478 -.1814 -.2939 .881 .9600 DEPENDENT VARIABLE CP = 1.1013 .1120 .0676 .1386 .1924 .2231 .2540 .3697 .4423 .9210 = 4.251 MACH .0700 .1729 .1457 .1861 .2428 .2367 .2410 .2410 . 2207 -.0613 -.0945 -.0610 -.1110 -.2045 -.1298 -.0637 3448 .8790 .0460 .2628 .2628 .2899 .3375 .3377 .3548 .4179 .4222 .8210 .0384 .0477 .1352 .1166 .1125 .3695 .4740 .5173 BETA (3) .3879 .4091 .5011 .5435 .5513 .5609 .5609 . 5268 4990 .1355 -.2284 .0105 .7790 2314 2733 2986 3138 3730 SECTION (1) ORBITER FUSELAGE .0080 .8290 .7086 . 1656 .7290 .0579 .0657 -.0412 3.92: .0000 1.3248 .1546 .1319 -.0700 -.0295 1.3248 .6520 .0538 .0702 .0675 20.000 55.000 70.000 90.000 1120.000 1150.000 151.000 152.000 153.000 153.000 154.000 ALPHA (3) .000 70.000 90.000 105.000 110.000 125.000 135.000 165.000 X/LB

-. 0445 .4970 -.0615 -.0915 -.0830 -.0689 -.0481 .3780 -.0630 -.2585 -.2566 -.1902 -.0362 -.0769 .3010 -.0313 -.4568 -.4682 -.4625 .2510 .0085 -.0262 . 0298 . 0080 . 0080 . 0098 . 1415 .2040 .1770 . 1660 .0989 .0878 .1017 .0944 .0899 .1067 DEPENDENT VARIABLE CP . 1120 .0486 .1006 .1319 .1612 .1874 .0700 1597 1169 1141 1411 1458 1458 2087 .0460 .2643 .2411 .2430 .2370 .2491 .3146 .0230 .3743 .3655 .4164 .4357 .4540 SECTION (1) ORBITER FUSELAGE .0090 .8077 .0000 1.3114 20.000 46.000 55.000 70.000 90.900

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DATE 10 FEB	.B 76		TABULATED	TED PRESSURE	SURE DATA		0A148 (AMES 11-073-1	11-073-						PAGE	588
				AME!	AMES 11-073(0A148)		-140A/B/C/R		ORB FUSELAGE			(XE8820)	320)		
ALPHA (3)		3.921 BE	BETA (3)		.251										
SECTION (1) ORBITER	ER FUSELAGE	4GE		DEPENDENT	IT VARIABLE	BLE CP								
X/LB	.0000	. 0080	.0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PHI 140.000 150.000 151.000			.4790	. 3848	. 2808	.3811		.6381	.3330	3841	6373	3851	2190	0435	
162.000 165.000 169.000							!	.7461	£000	5601	6506	3522	2505	0426	
180.000	1.3114	.6847	. 4987	.40 6 8	.3361	.4300	.8355	₽757.		6699	5708	3598	2505	0501	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
PH1 .000 .000 70.000 90.000 105.000	. 1522 . 1623 0525 . 0068	.1657	. 1239 . 1385 1295 . 0296 . 1275	.0257 .0346 .1227 .0929	0787 1024 0558 1512	1686 1481 2089 2494 3220	2793 2888 2304 2756 3580	S	6400 4919	6530 4006					
150.000 150.000 150.000 165.000	.0526 .0339 .0700	.1010	.2849 .3161 .3145	.2805 .2775.	2961 2407 1435	3802 2985 2609 1683	4259 3363 3261 3444	. 3905 3905 1							
ALPHA (4)	3.7	.863 86	BETA (1)	•	-3.864 МАСН	3	1.1008	σ	- 600	600.53	•	- 707.91	RNAL		3.1857
SECTION (110RB1TER	ER FUSELAGE	Ř		DEPENDENT	T VARIABLE	LE CP								
X/LB	. 0000	. 0080	. 0230	.0460	.0700	.1120	. 1580	.1660	.1770	.2040	2510	3610	.3780	.4970	5740
PH1 .000 20.000 40.000	1.2860	<u>e</u> .	.5083 .5526 .6549	.3621 .3797 .4334	.2580 .2507 .3185	.1691		.1365 .1379 .1749		.1265	. 0689	.0387	.0356	. 0093	J193
55.600 70.063 90.603		.7730	.6547 .6547 .6266 .5485	.4696 .4464 .4325 .3866	.3637 .3310 .3232 .2849	.2989 .3166 .3591		9.148 1.045 1.045 1.045		. 1444 . 1754 . 0059	2749 3176 3326	1207 1681 5133	1328 2022 5600	2264 1953 2690	
150.000			924¥.	.3282	.2530	. 3685		.7698	1983	0875 2468	7305	5865	2513	1053	
165.000 165.000 169.000 174.000							.8576	. 7899	5063	6032	6790	5048	2364	0804	

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

BETA (1) = -3.864

7.863

ALPHA (4) =

3

(XE8820)

	5740						ï		5740	h	6						
							3.1857		i.		. 0291						
	. 4970	0613					•		0254	.010	0110	1976 1840 1547	0694	. 0476	0429		
	.3780	2172					RN/L		3780	.0370	. 0316	1940 2607 3409	2075	2016 -	2009 -		
	3010	- 3972					707.91		.3010		.0132	2044 2439 5734	5232	3993	3738		
							•						-				
	.8510	6349					۵.		50.00	.0755	. 0539	3216 3746 3970	7270	6196	7128		
	.2040	7043	1.0460	6243			600.53		.2040	.1120	. 1060	. 0068 . 0885 . 0885	4965	5930	7232	1.0460	6258
	.1770		1.0180	6082 5261			•		.1770				.4088	.4450	·	0810.1	6065 4896
	.1660	6669.	. 9990		3395		æ		. 1660	.1395	1575	1499 1786 3508	.6798	1147.	. 7245	3666.	• •
BLE CP	.1580		.9600	2351 0582 0582	1999 1858 2101	3407	1.1008	LE CP	.1580					8	50 10 10	.9600	2290
DEPENDENT VARIABLE	.1120	.3685	.9210	1124 0406 0504 1279	- 2118 - 1681 - 1384	0442	MACH	DEPENDENT VARIABLE	.1120		. 2066 2056	.2247 .2477 .3340	.3627		. 3802	.9210	1151
DEPENDE	.0700	.6507	.8790	0067 0449 0089 0519	2037 1823 0851	. 1485	.180 M	DEPENDEN	.0700	. 2547 7. 2047	2673	.2191 .2191	. 222₩		.2336	.8790	0081
	.0460	.3138	.8210	.0995 .1145 .0319 .0230	. 1102 . 3442 . 4072	3212.	#		.0460	.3669	3650	. 3332 . 3285 . 3256	.3259		. 2898	.8210	.0973
AGE	. 0230	.3658	.7790	. 3967 - 3967 - 5828 - 5172	1557	. 2751 12751	BETA (2)	J.	. 0230	. 5068 . 5204	.5769	.5345 .5199 .4782	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		.3784	0677.	.2006 .2193
1) ORBITER FUSELAGE	0800.	.5723	. 7290	.2513 3239 2554	1764	1600.		1) ORBITER FUSELAGE	.0080	.9437		.6340			. 5653	.7290	. 2565
	.0000	1.2860	.6520	. 2390 . 2338 . 1017 - 0658	1559	. 0600	± 7.865	1) ORBITE	. 0000	1.2924					1.2924	.6520	. 2355 . 2485
SECTION (X/LB	PH1 180.000	X/LB	PHI .000 .000 70.000 50.000	170.000 175.000 155.000 150.000	180.003	ALPHA (4)	SECTION (x/LB	PH! .000 20.000	+0.000 55.000	70.000 90.000 120.000 140.000	150.000	165, 900 169, 000 174, 000	180.030	17.E	PHI .000 .40.000

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(XE8820)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - DAIYB (AMES 11-073-1) ŝ BETA 7.665 DATE 10 FEB 76 ALPHA C 4)

DEPENDENT VARIABLE CD

(1) CRBITER FUSELAGE

SECTION

R 707.91 1.0460 600.53 .9990 1.0180 -. 3846 -. 2849 a -.1301 -.3086 -.2949 -.2787 -.3440 .9600 1.1008 .9210 -.1270 -.1836 -.2494 -.3287 -.2620 -.2118 -.1539 4.247 MACH -.0892 -.1740 -.2515 -.2805 -.1781 -.1143 -.0828 .8790 .8210 .0246 .0086 .0477 .3421 .5212 5605 3 -.3830 -.2119 .0243 .1225 .1803 .2379 .2721 .7790 BETA -.3447 -.0332 . 7290 -.1119 -.0049 .0543 .0753 .0686 .6520 -.1085 -. O443 70.000 090.000 1105.000 135.000 185.000 165.000

-.0376 -.1786 -.1415 -.0825 .4970 -.0532 .0021 -.0516 -.2671 -.3230 -.2466 .3780 .0322 -.0130 -. 1954 -.2056 -.0234 .3010 .0355 -.2790 -.3121 -.6266 -.3885 -.4425 .0646 .0182 -.3587 -.4330 -.4611 500 -. 7206 -.6670 . 1075 . 0596 . 0380 . 0380 . . 0811 . . 1808 . . 3175 .2040 -.6056 .1770 3269 . 1660 1425 1307 1406 1087 1111 1338 2833 . 1917. 6181 . 1580 DEPENDENT VARIABLE CP .1120 .1369 .1385 .1385 .1675 .1949 3405 .0700 2465 2095 2176 1814 1414 1385 2043 .0460 .3577 .3269 .3139 .2623 .2325 .2370 3019 . 0230 .5014 .4871 .4547 .4307 .4321 3845 SECTION (:) ORBITER FUSELAGE .0000. .4900 .9291 .0000 1.279 ALPHA (4) 26.000 55.000 55.000 96.000 1170.000 1170.000 1171.000 1171.000 1171.000 1171.000 1171.000 1171.000 1171.000 Ŧ

.0112

.0027

-.0606

-.2288

-.4022

-.6267

..7189 1.0460

. 7234

.7976

1.0180

.9990

-.6308

-.6112

-.4334

-.5037 -.3655 -.3688

5740

-.2344 -.2242 -.3121 -.4067 .9600 -.1111 -.1020 -.2541 -.2900 -.3747 .3718 .9210 .₽¥10 .8790 .8210 3258 .3842 .7790 .2462 546 . 7290 .6520 40°5. X/LB E

-.3960 -.3450 -.3124 -.0149 -.0400 -.1526 -.2209 -.3373 -.2534 -.1900 .0920 .1085 .0296 .0125 .0376 .2963 .4087 .1957 .2120 -.3300 -.1175 .1116 .2353 .2952 -.3077 -.203+ -.0762 -.0013 94+0 3463 105.000 1100.000 1100.000 1100.000 135.000 135.000

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				3.1882		.5740	.2004	¥4.													
				•		.4970	. 0965	. 0965	2311	. 3503	1338	9000		0526							
				RN/L		.3780	.1183	.1417		7205	2872	า ถึงถึง ถึง		1920							
				708.60		.3010	.1069	.1159		5142	6762 -	ENET .		4260 -							
				•		.2510	1621.	. 1408			7780 -		. /530	6825 -							
		1.0460		53 P		.2040	. 1866	.2104	. 1575				9900.	7456 -	1.0460	5982					
		1.0180 1		= 600.53		.1770						.4581	•	•	1.0180 1	- 5839					
		0666		o		. 1660	2009.	#88%.	. 2203 2224 3224	3958	.7469		.7550	.6599	0666	•		3910	3462		
	LE CP	.9600	3625	1.1003	LE CP	.1580								. 808	. 9600	1945	2387 3262 3562		. 2550 - 2534 - 2534	2876	1:00:
	T VARIAB	.9210	2446	u	T VARIAB	.1120	1	. 2529 . 3187	.2813 .2799	. 2901	.3050			.3169	.9210		2188 2094 		2656		
4.247	DEPENDENT VARIABLE	.8790	.0189	-3.846 MACH	DEPENDENT VARIABLE	.0700	3491	.3515 .4053	3084	. 1811	.1318			. 1482	.8790	.0570			1995		
#	_	.8210	.4951	-3.	-	.0460	.4652	.4854 .5238	.4887	. 3845 . 2 825	.2183			.2193	.8210	.1566	0638 0638	1	. 1032 2815	378	.5402
FA (3)	ы	.7790	.2759 .2564	FA (1.)	ų	. 0230	.6287	.6755. .7432	.6997	. 5555. 641.	.3110			.2390	.7790	.2677		77.	. 05180 . 07:70	.0571	. 2369 . 2369
SC BETA	PUSELA	.7290	1600.	33 BETA	PUSELA	.0080	1.0534		;	. 7064				.4169	.7290	.3268	3865		2010	1739	0408
- 7.865	1) ORBITER FUSELAGE	.6520	.0837	= 11.933	110RBITER FUSELAGE	. 0000	1.2314							1.2314	.6520	.3242	. 5435 - 1407 - 0661		1855		0730
ALPHA (4)	SECTION (X/LB	P41 165.000 180.300	ALPHA (5)	SECTION (X/LB	PH1	20.000 40.000	55.000 30.000	90°.030 1≥0.090	140,480 150,880	151,000	165.000 169.000	190,000	a¬/x		93,400 93,400 93,000 93,000		80.000 80.000	0.0	

303		3.1882		.5740	1321.	. 1980								3.1882		.5740		.1726	
PAGE		•		0.4970	.1007	.2735	3213 3108 2089	0896	0473	0379				•		. +970	.09 8 4	.0342	3410 2316 1464
	(02	RNAL		.3780	0711.	.0945	2019 2627 6804	2416	1958	1809				GN/L		3780	.1127	.0489	2821 3294 3533
	(XE8820)	- 708.60		.3010	.1125	.0792	2007 2232 5615	5863	4416	4076				- 708.60		.3010	9111	.0316	<i>27</i> 53 2989 6103
		c.		.8510	. 1340	. 0988	2878 3565 4029	7736	6694	7314				•		.2510	.1298	.0488	3319 4069 4659
		600.53		.2040	1899	1733		1855 4779	6370	7588	1.0460	5982		600.53		0400	.1743	1141	.0705 0114 1462
<u>.</u>	ORB FUSELAGE	•		.1770				U530	#G2#		1.0180	5761 4641		- 60		.1770			
- 0A148 (AMES 11-073-1		ø		. 1660	2065	. 2.7.1 17:5:	1586 1949 3543	.6710	.6998	.6871	.9990	1	3328	ø		. 1660	.2059	1696	1071
B (AMES	-140A/B/C/R	1.1003	BLE CP	.1580					!	.7679	.9600	1780 1908 2489 3425	3506 3188 3204 3611	1.1003	BLE CP	. 1580			
	-073(0A[48)	MACH	IT VARIABLE	.1120	i i	. 2621 1.0621	. 2103 . 2742 . 2910	.3128		.3248	.9210	0519 0113 2008 2288	3494 3040 2793 1974	MACH #	NT VARIABLE	.1120	0	1903	1531 1852 1852 2715
RESSURE DATA	Ξ	.188 M	DEPENDENT	.0700	.3515	3434	.2644 .2071 .1827	.1112		.1375	.8790	.0634 .0230 1583 1950	3137 2266 1828 .0567	4.263 M	DEPENDENT	.0700	.3381	2715	. 1075 . 0855 . 0536
ä	AMES			.0450	.4721	.4513	.3756 .3189 .2909 .2362	. 2265		.2000	.8210		.3115 .3185 .5348	<i>*</i>		.0460	.4667	.3823	.2037 .2037 .1883
TABULATED		BETA (2)	ig Light	.0230	.6364	. 6542	.5763 .5080 .4653 .3865	. 2998		.2603	.7790	. 2975 . 2975 . 4898 . 3944	.0396 .1105 .1621 .2333	SETA 13	V CE	. 0230	87.68 67.68	87.43.	3913 3725 3725
			R FUSELAG	.0000	1.0552		.5637			5704.	.7290	.3277	1395 0324 0285	.905	IR FUSELAGE	.0380	1.0411		₹ 1 .
FEB 76		16.11	1) ORBITER	.0000	1.2398					1.2398	.6520	.3341 1205 0598	0+31 .0393 .0862	5.11	1:0RB1TER	.0000	1.2256		
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PH1	20.000 40.000	55.000 70.000 90.000 120.000	150.030	152.000 152.000 165.000 169.000	174.000	X/LB	PHI .000 .000 70.000 90.000	110.000 135.000 135.000 150.000 165.000	ALPHA (5)	SECTION (X/LB	PH:	000 - 000 4 - 0000	95.050 90.000 120.000

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PAGE				0764.	0590	0456	0569		
	(XEBBS0)			.3780	194E	1839	2071		
	iğ.			.3010	4922	4156	4324		
				500	7760	6929	6765		
				.2040	5957	6474	7610	1.0460	3447
	AMES 11-073(64148) -1474/8/C/R ORB FUSELAGE			.1770	3245	.3662		1.0180	5834 5070
ILLATED PRESSURE DATA - DAI48 (AMES 11-073-1)	C/R ORB			. 1660	5942	.6857	.6904	.9990	-,4572 -,4294
B CAMES	-1mJA/B/		BLE CP	.1580		1	. 7590	.9600	1925 2005 2196 3800 5711 3916 3566
A - 0A14	(CA148)		DEPENDENT VARIABLE CP	.1120	. 2993		.3184	.9210	0529 0414 2665 2642 369 3518 3318
SURE DAT	S 11-072	4.263	DEPENDE	.0700	. 0858		. 1233	.8790	.0503 .0197 .2076 .3274 .5267 .3717 .2657
TED PRES	APE	3) = 4		.0460	.2122		.2360	.8210	. 1542 . 1784 1352 1264 0658 2418 553
TABUL		BETA (3	AGE	.0230	÷182.		.2584	.7790	.2818 .2818 .4578 3554 1158 .0372 .1469 .2469 .2469
		11.905	ER FUSEL	.0080			. 3825	.7290	.3185 4099 2881 1073 0394
B 76			1.08811	.0000			1.2256	.6520	.3169 .3325 1105 0541 .0417 .0417 .0952
DATE 10 FEB 76		ALPHA (5) .	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 140.000 150.000 151.000	165 254 169 000 171	180.000	(/LB	PHI .000 70.000 90.000 105.000 110.000 120.000 135.000 165.000

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		DATA	SPDBRK L-ELWN MACH	28		3780		0363		- 0680 -		,0593 CE,19	X 88.25	0000	6233	.0129	.007
	(XE8821)	PARAMETRIC DATA	.000 -11.700 .000	1058.5		3010		0667		1280				9180		0315	0169
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			E B &	600.22		.2040		2166	2556	4397	2878	2000	2338	1623 2718	?	8322	9379
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11-073-1	/R ORB F			o		. 1660		2149	2611	3531	- 1921	1613	.1877	.6556		.7186	.6392
SURE DATA - 04148 (AMES 11-073-1	S 11-073(04148) -140A/B/C/R ORB FUSELAGE			.90000	LE CP	.1580		•	•	•	• •	•					. 829 2
4 - 0A14E	(0A14B) -		000 200 200 200	MACH	DEPENDENT VARIABLE CP	.1120				0.479 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0808	1125	. 3244	.4163			.4133
SURE DATA	5 11-073		.6800 IN. .0000 IN.	.849 M	DEPENDEN	.0700		1706	4305	9012. 1000	76.31	2059	. 3339	0404.			.3915
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B 76		REFER	2693.0000 SQ.FT. 474.8000 IN. 936.0680 IN.	= -4.037	1:0RBITE	.000		1.1890									1.1890
OATE 10 FEB 76			SREF = 2 LREF = BREF = SCALE =	ALPHA (1)	SECTION (1: ORBITER FUSELAGE	X/LB	ğ	. 000	100.01	1.5.000	70.00	90.000	120.009 140.000	11.0.1100	10.000	165.000 165.000	190.000

-.2801 -.4579

.4133 .9210

.466E .8210

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1.1890 .6520

X/LB

.8790

-.3441 -.3426 .1577 .1974 .2440

.2415 .2351 .0567 .1214 .1916

-.0490

-.1332 -.2417 -.0249 .0546

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-.9379 1.0460

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PAGE	٠		.4970			•	.4970	.0056 .0063 .0754 .0569
			.3780	0278 0437 0437 0069 0168		FRAZE	3730	- 0287 0093 0136
•	(XEBB21)		.3010	0547 0795 0994 1715 0306 0233		1058.5	.3010	0772 0484 0850 1964
	۰.		500	1957 3513 7715 6798 8502 7476		•	0.85	1801 2387 8354 7351
	GE 500.22		.2040	2224 3451 3451 3210 4581 4581 9548 9548	2438 3438	600.22	.2040	2453 2453 3068 3973 5912
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	-1403/B/C/R -90000	90	-	5418.	. 2932 - 1512 - 1512 - 1554 - 2073 - 2590 - 2590 - 2591	•	LE CP . 1580	
- 0A14	11-073(0A148) - 92 MACH =		•		- 5022 - 14391 - 1840 - 1840 - 1840 - 1869 - 1969 - 1969	I	IT VARIABLE	2198 1999 1705 0956 0830
		5	.0700	1721 2187 0543 0543 0543 0543 0543 2541 2572	. 1654 - 1654 - 1654 - 1654 - 1656 - 1656 - 1656 - 1666	M 682.	CEPENDENT . 0700	1899 2281 2096 1317 0037
	Ä V		.0460		1.360 1.360 1.360 1.360 1.360 1.360 1.360 1.360 1.360	3	. 0460	- 1397 - 1397 - 1585 - 0585 - 2588
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		בו בונע	•	.5842. 5442. 7858.	2067 0358 0035 0035 1811	Q.	R FUSELAGE .0080 .	. 3346
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5740 5740 0236 9250 39 £63. .0203 9239 .4970 .0274 1 .0014 958 948 948 948 2006 .0050 Z .0159 .0126 -.0071 6000 .0065 3780 -.0032 .3780 -.0380 .0135 .0116 - 6259 (XEBB21) 1058.5 3010 -.0096 .3010 -.0962 -.1325 -.2363 -.0349 -. 0909 -.0167 -.2552 -. 623 -. 1574 -.6499 -.6363 -.6048 .030 -.2885 . 50. -. 85±6 -.7463 -.7667 -. 1849 -. 9895 -. B620 -.8052 -.8762 -.8514 -.2948 -.2038 - 1710 - 1983 - 2455 - 1959 - 1959 - 2604 - 2575 - 2735 -.9395 .2040 1.0460 .2040 -.9131 599.08 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 1.0180 .1095 -.4638 .1770 57. .2986 34.18 -.2826 -.2532 .6557 .9990 -. 1683 -. 1970 -. 2261 -. 0995 -. 0539 -. 0238 . 1660 87/1 .6314 .1660 6274 .6704 .1580 .7527 .9600 . 1580 .89917 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.6068 -.4819 -.4322 -.3580 .1120 .9210 .3029 .4126 .0147 .1031 .1413 .2920 .1120 .3380 MACH -.0866 -.1242 -.0738 .0983 .1596 .1905 .0700 -.6536 -.4886 -.3575 -.1359 .2936 .8790 .0700 .3791 -3.875 4.289 -.0084 -.0125 -.0370 -.1967 -.2658 -.3174 -.3942 .0460 .4033 .4640 .8210 -.3520 -.3360 .0487 .0615 .3697 .5280 3913 .0460 BETA (1) .0230 .5119 -.2371 -.2258 -.0052 -0474 .0471 .5857 . 1790 .1468 .2537 .2809 .2923 .3141 .0230 .0671 .1083 .2879 .4288 .4950 .5417 5267 BETA SECTION (1) ORBITER FUSELAGE (1) ORBITEP FUSELAGE -.2019 .0080 .8038 -.0622 .0080 .7290 .0399 . 1236 .1037 型17. .5151 , 0. 4.045 .0000 .6520 0339 .0000 1.129 1.2037 ALPHA (2) SECTION PHI 140.000 150.000 151.000 165.000 165.000 174.000 180.000 .000 46.000 55.000 70.000 120.000 140.000 151.000 165.000 165.000 174.000 40.000 90.000 110.000 135.000 135.000 185.000 185.000 X/LB X/LB ᆵ

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

(XEBB21)

		3740					3.5682	,	5740	8750.	. Q408						
		. 4970	.0018				ب	•	OTE.	. 3283	Sec.	6.000 6.000		Øric.	.0183		
		.3780	. 6099				5 PRVL		.3780	£10.	0082	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	. 9233	. 12 02	.9205		
		.3010	0591				- 1058.5		.3010	0627	0576	0868	1732	3020	0579		
		.2510	8656				Q.		50.	1827	2769	7275	9.9	8613	8605		
		.2040	-1.0535	1.0460	2974 2857		599.08		.2040	1670		2508 3772 4085	4922	9194	9349	1.0460	2921
		.1770	•	1.0180	4776		590		.1770					.2743 .2743		1.0180	4811 3439
		. 1660	.5818	.9990		2154 2154	σ		. 1660	1573	- 1887	1036	. 1, 195 105	. 6459	.6256	0666.	
	BLE CP	. 1580		.9600	- 3391 - 3448 - 0672 - 1140 - 1615	1905 1962 2133 1951	.89917	BL: rp	.1580						£.	. 9 6 00	3243
	3	_	-	10	32 S C C C C C C C C C C C C C C C C C C	- 2065 1596 1417 1165	Ħ	VARIABLE	.1120	6	- 1079	.0236 .0553	3078		3440	9210	4003 3920
	N Y	.1120	.3290	.9210	4432 4070 0295 0951 1422	0	Ğ	<u>۲</u>	-	-		99.	, w		Ŵ.	•:	1 1
1.875	DEPENDENT VARIABLE	.0700 .11 <i>2</i> 1	. 2818	. 8790 . 92	3883 44 3437 40 0782 05 1474 09 2452 14	4046 - 2 28191 22301	. 185 MACH	DEPENDENT V	. 0070.		0738				. 2978	. J678.	- 3877 - - 3506 -
1 = -3.875	DEPENDENT VA		•		3883 3437 0782 1474 2452			DEPENDENT V		0799	0738		.2713		•	•	
# 5		50 . 0700	71 2818 .	8210 .8790	3437 0782 1474 2452	4046 2819 2230 0389	(2) = (195	DEPENDENT	0070. 6	. 0017 - 0799	0738	1582 0691 2002 0931	5175. 3935.		. 2978 .	. 3678. 01	3577 3506
BETA (1) =		.0460 .0700	.3571 2818 .	0678. 0128. 0677	27583883 26353437 .13870782 .17211474 .22202452	.28254046 .35222819 .28822230 .4091	1 BETA (2) = .185	DEPENDENT	.0460 .0700	. 0017 - 0799	0082 - 0738 0082 - 0738	3854 1582 0631 4317 2002 0931 4809 3051 1954	5175. 3935.		. 3689 . 2978 .	. 9210 . 8791.	.153527473877 .140825973506
# 5	SECTION (1) ORBITER FUSELAGE DEPENDENT VA	.0230 .0460 .0700	. 4560 .3571 .2818	. 0678. 0128. 0677.	.0840152527583883 138026353437 .22370134 .13870782 .1423 .0589 .17211474 .123 .22202452	.0541 .2453 .28254046 .3093 .35222819 .0643 .3063 .28822230 .2803 .0389	(2) = (195	C 11 ORBITER FUSELAGE DEPENDENT Y	.0230 .0460 .0700	9970 7188. CTTO. 0	0082 - 0738 0082 - 0738	. 4317 . 2002 . 0931 . 4317 . 2002 . 0931	5175. 3935.		. 4759 . 3689 . 2978 .	. JETB. 0158. 0ETT.	.08251535 +.27473977 140825973506

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308 308								3.5682		5740	.0228	.0569							
PAGE								•		0.4970	.0270	1610.	.0393	.0063	.0100	.0055			
[;							Ş		.3780	1.0171	. 0014	.0099 .0180 .0123	.0153	.0130	.0142			
(YEBB21)								:058.5		3010	0756	0508	0847 1328 2276	1119	0747	0759			
								•		. 2510	1731	2733 -	7825 7830 7796	9632	8535 -	- 8648 -			
			1.6.460							.2040		-	- 3252 - 4945 - 5596		8726	-1.0521 -	.0460	2678 1962	
-1) FUSELAGE			1.01%					- 599.08		.1770	•	•	• • • •		. 1862	7	1.0180 1	- 4597 -	
.073 .088	}		J866.		eec0 2226			0		.1660	.1517	1701	1814 1845 0180	.4573	. 5939	.6141	1 0666		2244 2244
~ G	• •	X.E. CP	.9600	1156 1476 1966		2563	1976	.89917	LE CP	.1580	•	•	1		i	B+ 1 / ·	.9600	3216 2599 1500 1715	5088 5088 3755
- UAI4 0AI48)		DEPENDENT VARIABLE	.9210	1221 1604 2039		2671		MACH .	DEPENDENT VARIABLE	.1120	1417	1136	0369 0251	.2599		.3390	.9210		6115 5104 4842
RESSURE DATA - DATA	.186	DEPENDEN	.8790	2425 3054 4393			1057	4.265 MA	DEPENDEN	.0700	.0885		0250 0132 .0897	.2174		.2901	.8790	3765 3765 3148 3949 5155	6406 5235 4030
L	Ħ		.8210	.0748 .0953 .1264	.2398	. 3979	.4838			.0460			.0573 .0897 .7705	.3284		.3620	.8213	- 2557 - 2530 0298 0331	. 3368 . 4315
ABOLA ED	BETA (2)	JGE JGE	.7790	0496 4450 . 0981	1691	2673	.2732	BETA (3)	Ŋ,	. 0230		. 1538		TT24.		1474.	.7790	1496 1392 0633 .0031	. 1229 . 2156 . 2489
	031 B	ER FUSELAGE	.7290	2310 1412	0188	.0564	.0741	.021 BE	110RB1TER FUSELAGE	.0090	.5034		.4170			.6864	.7290	0803 1889 1217	0218 .0545
))	n	1) JRBITER	.6520	1221 0766	0291	0030	.0011		1) ORB1 TE	.0000	1.1950					1.1950	.6520	0342 0472 1156 0678	0232 . 0203.
	ALPHA (2)	SECTION (X/LB	70.000 90.000 105.000	120.000	150.000	180.000	ALPHA (2)	SECTION (X/LB	PH1 .000 20.000	40.000 55.000	70.000 90.000 120.000	150.000	162.000 165.000 169.000	180.000	X/LB		

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AMES

ALPHA (2)		.021 8	BETA (3)		4.265										
SECTION (1) ORBITER FUSELAGE	1.108811	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PHI 165.000 180.000	.0039	.0762	.2528 .2748	.4306	1819	4095	1965								
ALPHA (3)	ti	3.922 B	BETA (1)	a	3.878 M	MACH #	. 89950	σ	\$ \$	599.38	Q .	= 1058.3	RN/L	•	3.5682
SECTION (1) ORBITER FUSELAGE	1) ORB1T	ER FUSEL	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/L9	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	4970	.5740
PH1 .800	1.1967	. 6683	.2180	.0973	.0116	:		0937		1086	1332	0659	0056	.0612	.0755
			.4187 .4187	. 1085 1521	0041 .0643	0689		1065		1287	1653	0469	.0158	. 0552	.0983
000.07		1	. 57.00 57.0	2951	. 1769	. 1328		0115		1160	5743	1648	0315	. 3208	
120.000		. 5853	. 5274.	.3124	. 1968	-582 -2558		. 2075		2096 2589	6258 6186	2199	0374	. 0152 0590	
150.000			1614.	.2901	.2139	.2705		.6860	į	3558	9628	4393	.0027	0234	
162.500									3053	9657	8505	4198	.0327	0149	
174,000	1.1967	.5709	.3367	.2604	. 1966	.2631	.7396	.5402	·	-1.1002	2 026	F. 2743	17.50	- 0058	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460		}			
PHI .000	9120.	0018			3033	3752	5179		4695	2824					
70.000 90.000 105.000	2222 1700	4473	. 0965 . 0083 . 0983	1.153 1.153 1.153 1.153 1.153	2700 0603 1131	3421 0239 0764 1360	3958 0612 1004 1572		3781	2615					
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	3901	0039	.2613 .2460	. 1737	3445	1812	2095	:							
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311		3.5682		.5740	.0853							3.5682		.5740	.0738	
PAGE		٠ •		. 4970	.0756	. 0169 . 0070 0149	.0036	. 0080	.0088			•		.4970	.0620	.0051 .0051 .0043
	321)	S RN/L		.3780	7010.	. 0297 - 0231 - 0198	.0458	.0427	.0394			FAYL		.3780	.0025	0319 0130 .0157
	(XE882)	- 1058.3		.3010	0581	1528 1739 2849	3824	2432	1696			1058.3		.3010	0671	1441 1766 2843
		۵		.2510	1268	6515 7080 6877	-1.0307	9281	9368			<u>.</u>		.2510	1418	7234 7929 7776
		599.38		.2040	1030		8709	9693	-1.0117	1.0460	. 2819 . 2164	599.38		.2040	1146	2029 2601 4115 5222
	ORB FUSELAGE	* 59		.1770				. 1889 . 24 14 . 4145		1.0180	4741 3654	. 29		.1770		
AMES 11-073-1		O		. 1660	0864 0923		₽10.	.6044	.5797	0666.	1974 1974	0		. 1660	0884 1016	1242 1417 1332 .0170
_	-140A/B/C/R	.89950	BLE CP	.1580				c C C	3037.	.9600	5082 4085 1317 1843 2268 2346 2346	09658	JLE CP	.1580		
A - 0A148	11-073(04148)	MACH #	NT VARIABLE	.1120	0538		.2534		.2759	.9210	3654 3654 1842 1948 2736 2636	насн	VT VARIABLE	.1120	0719	0275 0123 0010
PRESSURE DATA	S 11-073	. 198 м	DEPENDENT	.0700	.0052	. 0962 . 0979 . 0979 . 1447	. 1826		.1978	.8790	2947 2813 1727 2744 3955 5236 4774	.260	DEPENDENT	.0700	.0027	.0077 0054 .0005 .0013
	AMES	E) =		.0460	1119	. 1892 . 2058 . 2435	.2816		. 2688	.8210		±		.0460	.1031	.0820 .0710 .0919 .1629
TABULATED		BETA (2	AGE	. 0230	.2245 .2471	3904 3989 4149 4163	.3801		3544	0677.	0708 0569 1110 0300 0496 0496 1153 11717 1919	BETA (3)	AGE	.0230	.2010 .2010 .2535	475. 1375. 4789. 3232.
		3.975 8	TIORBITER FUSELAGE	.0090	.6738	. 5398			.5524	.7290	0056 3300 1368 0170	3.972 BI	1) ORBITER FUSELAGE	.0080	.6507	.3807
9 76		H		.0000	1.2020				1.2020	.6520	.0536 2310 1736 1736 0595 0595	3.0	1.09817[. 0000	1.1849	
DATE 10 FEB		A. PHA (3)	SECTION (x/rB	PH1 .000 .000	20.000 20.000 20.000 120.000	150.000	151.000 162.000 169.000	180.000	X/LB	0000000000000	ALPHA (3)	SECTION (хлв	PH1 .000 20.000 40.000	55.000 70.000 90.000 120.000

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			.5740							3.5584		5740	504:			
			.4970	. 0042	.0006	0072				ب		.4970	. 1123	2040	0411	01 86
(XE8821)			.3780		.0304	.0357				5 FRV/L		.3780	9040	0847 0994 2380	1175	1075
CXEB			.3010	3216	2255	2653				1758.5		.3010	0223			5009
			.2510	-1.0334	8783	9493				•		.2510	0542		6808	6495
			. 2040	6778	9807	-1.1046	1.0460	2908		599.41		.2040	0358	0547 0948 1689	3719	-1.0259
ORB FUSELAGE			.:770	8080	Bici.	•	1.0180	-, 4833 -, 3434		56S #		0771.				7735.
7.R ORB 1			. 1660	.4311	.5541	.5645	0666.		2827 2299	O		. 1660	0142	.0365 .0279 .0448	. 5809	. 5993
-140A/B/C/R		3LE CP	.1580		1999		.9600	5132 3887 1435 1632	2318 2070 2329 1847	. 85943	LE CP	.1580				.7005
		DEPENDENT VARIABLE	.1120	.2075		. 2625	.9210	3807 3532 2193 2851 4968	6451 5537 5292 4629	MACH	T VARIABLE	.1120	. 0233	1369 15450 1545 1950	.2019	
5 11-073(0A14S)	.260	DEPENDE	.0700	.1385		. 1855	.8790	3026 3067 3338 4168 5454	6326 5466 4480 2390	3.870 MA	DEPENDENT	. 3700	.1169	. : 924 : : 924 : : 822	.1147	
AMES	11		.0460	.2386		.2476	.8210	2131 1910 0095 0107 .0088	.0796 .3042 .4:74) i		.0460	6. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	. 3083 . 3083 . 2857 . 285	. 1862	
	BETA (3	43E	.0230	.3289		.3514	.7790	0799 0650 1443 0656	. 1555 1734 1718	BETA (1.)	સુ	.0230	.3577 .4085 .5202	.5406 .5093 .4830	.2913	
	972 BI	ER FUSELAGE	.0080	-		.5395	.7290	0034 4097 2965	1403 0205 .0132		R FUSELAGE	.0900	. 901 6	5262		
	m H	1) ORBITER	.0000	•		1.1849	.6520	2040 0440 1531 1689	0950 0548 0572	7.9	: 1 CRB1 TER	0000	:590			
	ALPHA (3)	SECTION (x/רם	PH1 140.000 150.000 151.000	165.000 169.000 174.000	180.000	X/LB	PH. 1000.	30 E E E E E	ALPHA (4)	SECTION (X T.B	P#1 P#10 PP . DB . DB . DB . DB . DB . DB . DB .	00000000000000000000000000000000000000	១០០០ ១៩០០ ១៩០០ ១៩០០ ១៩០០	00000000000000000000000000000000000000

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	(XE8821)
TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
10 FEB 76	

		.5740					3.5694		.5740	1458	<u> 171.</u>						
		0.4970	0003				•		.4970	. 1199	102	0155 0230 0559	0118	.0081	.0071		
		.3780	1122				5 RN/L		.3780	*B*0.	.0477	0958 0856 1164	0222	.0238	.01%		
		.3010	4884				= 1058.5		.3010	0145	0451	2568 3312	4662	4485	3419		
		. 2510	7206				۵.		.2510	0612	1148	5931 6961 7127	6396	6486	6506		
		.2040	9719	1.0460	2359 2359		599.41	-	.2040	0312	0610	- 1565 - 25335 - 4661	9449 9449	-1.0349	-1.1360	1.0460	2922 2285
		1770		1.0180	4750		12 23		.1770				ţ	. 2058 . 2058		1.0180	4634
		. 1660	4964·	0666.	ម ម ពិ	- 1984	ø		. 1660	0025	.0072	0314 0420 0531 1368	.5019	.5627	.5358	. 9990	
	BLE CP	. 1580		.9600	4919 4640 0850 1329 1816	1905 2203 2197 1977	.89943	BLE CP	.1580						.673	.9600	4832 4780
	DEPENDENT VARIABLE	.1120	. 1997	.9210	3558 3108 0784 1325 1901	2470 2160 1981 1614	MACH #	DEPENDENT VARIABLE	.1120		.0267	.0511 .0718 .0831	. 1952		.2165	.9210	3456 3054
-3.870	DEPENDE	.0700	9111.	.8790	2118 2140 0993 1373	3458 3608 3022 0651	.186 M	DEPENDE	.0700	. 1251	.1059	. 1326 . 0.103 . 0.103 . 0.103	.0985		.1113	.8790	2033 22:0
Ħ		.0460	.1618	.8210	1327 1121 .0845 .0691	.0722 .1929 .2661			.0460	.2281	.2301 .2381	. 1958 1950 1851	. 1883		.1755	.8210	1287
BETA (1)	4GE	.0230	.2103	.7790	0051 .0205 1378 0566	. 0938 . 0987 . 0985 . 0947	BETA (2:	AGE	.0230	.3670	.3876	3345 3347 3346	.2726		.2371	.7790	0007
	1) ORBITER FUSELAGE	.0080	.4185	.7290	.0802 5766 4854	2624	8.017	110RBITER FUSELAGE	.0080	.8095		1484.			1714.	. 7290	6480.
- 7.906	1) 01881 TE	. 0000	1.1590	.6520	.1305 .1369 3086	3062 1539 1281 1253	9.6	1) ORB1 TE	.0000	1.1684					1.1684	.6520	.1366
ALPHA (4)	SECTION (X/LB	PH1 180.000	X/LB	PHI .000 70.000 90.000	130.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 .000	20.000 40.000	55.000 70.000 26.000 120.000	150.000	151.000 162.000 165.600 169.000	174.900 180.030	X/LB	PH1 .003 40.000

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ALPHA (4) #

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

. 1343 . 15±9 -.0255 -.0255 -.0149 .4970 . 1097 . 2028 .0744 -. 3020 -. 3360 .0415 -.1012 -.0758 -.0479 .3780 .0152 -.0326 . DO74 .0157 1058.5 -.2685 -.2328 -.3418 .3010 -.1218 -.0349 -.4482 -.4143 -. +340 -.6666 -.7676 -.7909 . 5 5 5 6 -.1737 -.0749 -.7129 -. 6926 -.6504 .9990 1.0180 1.0460 .2040 -1.0460 -1.1722 -.3134 1.0':50 599.41 .1770 1.0180 .0784 -.4851 -.2772 - 0146 - 0290 - 0358 - 0959 - 1023 - 0919 - 0535 9990 . 1660 .5183 .4177 . 524t -. 2693 -. 2234 .9600 . 1580 -.4898 -.4666 -.1697 -.1859 .89943 .9600 -.2538 -.3424 -.2875 .6250 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .9210 .1120 -.5505 -.4883 -.5052 . 1999 .9210 .1616 MACH -.2043 -.2812 -.3817 -.4955 -.4411 -.3609 -.1712 .8790 .0700 7760. .8790 .8210 .0109 .0172 .0059 .0923 .3018 .4240 3944 2176 1821 1681 1115 0845 0845 1131 .0460 -.1382 -.112 -.0570 -.0572 -.0508 .0084 .2676 .3673 : 585 .8210 <u>m</u> BETA (2) -.1884 -.1230 -.0153 -.0072 .2108 -.2496 -.1762 .7790 .0863 .1123 .1243 0230 3356 3356 3377 2986 2722 2696 2596 2596 -.0515 .0514 .1104 3677. 2310 .2360 BETA 1 JORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.6235 . 7290 -.2499 -.1321 -.0777 .0080 +.5963 +.4514 .7904 . 3282 .0766 3840 . 7293 -. 2423 -.1061 -.1345 -.1151 -.1124 -.3082 -.2119 .0000 -.:652 . 5523 . 1523 1411.-ALPHA (4) PH1 70.000 90.000 105.000 110.000 135.000 150.000 150.000 150.000 SECTIC 87/X 972

(XE0821)

AMES 11-073(0A148) -140A/8/C/R ORB FUSELAGE TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

				3.5727		.5740		-2119	03:5																			
				٠ ي		.4970		.1790	1206		0+06	0614	2634	0876		0±7J		0058										
				EN/L		.3780		. 0993	2114		1546	1788	4206	2379		2162		2048										
				- 1058.5		.3010		.0411	NA STATE		£003	2313	5436	5131		5581		5458										
				•		.2510		.0172	g		4338	5489	6615	5717		5727		6038										
		1.0460		600.39		.2040		.0493	.0489	- 0.162	0607	1391	₹0	5265		8307		7085	1.0460		3715	/cou						
		1.0180		• 60		.1770									. 2382 . 2391				1.0180		5F4.	. 4565						
		0666.		ø		. 1660		.0748	.0786	0576	0469	.0573	. 1865	.5601			.5636	.4583	. 9990					É	2117			
	BLE CP	.9600	1933	.90017	BLE CP	.1580											6600	3	.9600		9444	11010	1731	2282	2277	2534	1972	
	DEPENDENT VARIABLE	.9210	4594	MACH .	DEPENDENT VARIABLE	.1120			1.320 1.320 1.320 1.320	1548	. 1506	1409	. 1421	9441.				.1485	.9210		MI 44	1,500 to 1	- 25542	2952		2809 3021		
4.257	DEPENDE	.8790	2384	-3.861 M	DEPENDE	.0700		. 2214	9, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	0/10	. 1822	. 1595	.0571	7610.				.0273	.8790		- 1050 0 0	2663	2623	3259	3826	3715	1213	
3) • t		.8210	.3575	3		0940.		.3359	. 3567 7005	.3638	3019	. 2522	. 1512	.0847				.0746	.8210		0535	0000	.0350		1405	. 2893 2893		5++5.
BETA (3	AGE	.7790	.1138	BETA (1	AGE	. 0230		4978	ָהָלָה. היה היה היה היה	1595	£838	. 4286	.2991	. 1643				. 1962	.7790		9170.	4.170	0540	0137	6200.	0038	.0221	. c /u
8 +1U.8	ER FUSEL	.7290	0924		ER FUSEL	. 0080		.9217				.5581						.2619	.7290	1	9 6 7	DCC7 -	5738	٠.	2533	2222	1001	- 10 A
66	110RB11	.6520	1136	# 11.899	1.3 ORBIT	. 0000		1.0992										1.0992	.6520	,		1,1,1,1	- 3471		3657	2526	2101	
ALPHA (4)	SECTION (110RBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	H.	000.	40.000	55.000	70.000	90 · 000	120.000	150.000	151.000	165.000	174.000	180.000	X/1 B	PHI	000.	200	9).000	105.000	120.000	150.000	165.000	ומה. נחם

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316		3.5727		.5740	.2390							3.5727		5740	.2046 .2126	
PAGE		•		0764.	.1575	1355		.0082				m m		0.61	8-7:. 06:1:.	5880 653+
	21)	RN/L		.3780		1878 2933 1859	- 1880 -	. 1960				1/N24		.3780		
	(XEBB21	1058.5		.3010		2661 4151 5081	·	5335				1058.5		.3010		23763516
		.		0102	.0256 .0504			6157						.2510		7195 -
		0.39		.2040	. 0523 . 0327 . 0952 0953	2143 3457 4941 7297	9955	1777	1.0460	2286		.39 P		.2040	. 0615 - 1519 - 1519 - 1772	
	FUSELAGE	= 600		.1770			. 1792		1.0180			= 600.39		.1770	,,,,	
11-073-1	ORB	ø		. 1660	.0700 .0658 .0650 3250	.1362	.5172	1064.	0666.			σ		.1660	. 0725 . 0048 . 0069 - 1120	.0532
3 (AMES	-140A/B/C/R	.90017	ALE CP	.1580				800a.	.9600	4534 4591 2030 2382	3555 - 315 3387 2044	71006	in CP	.1580	, ,	•
4 - 04148	-073(0A148) -	MACH =	IT VARIABLE	.1120	. 1207 . 376 . 0542 . 0703	.1232		. 1563	.9210	3122 2855 3337 3819	5022 - - 4298 - 4029 -	, ,	VARIABLE	.1120	.0918 .0668 .0478	. 0214 . 0993
SURE DATA	=	.190 M	DEPENDENT	.0700	. 2253 . 2076 . 2206 . 1394 . 7670	.0197 .0197		. 0268	8790	1509 1931 3162 3435	4559 4272 3819 :593	. 274 MACH	DEPENDENT	.0700	.2121 .1732 .1383 .0235	.0280
ED PRESSURE	AMES			.0460	.3483 .3333 .3281 .2393 .1830	6980. 0945.		0611	.8210	- 0399 - 0391 - 0846 - 0839	. 3457 . 3457	tu .	0	09+0	.3352 .2873 .5%2 .1196 .0721	
TABULATED		BETA (2)	Je Je	. 0230	.5040 .5139 .5181 .4372 .3653	.2419 .2419		1173	.7790	. 2760 . 1015 - 2225 - 1329 - 0418	2000 00 00 00 00 00 00 00 00 00 00 00 00	A (3)	ਜ਼ੁ	. 0230	.48847 .4654 .3015 .3015	17.13.
		.956 BE	R FUSELAGE	. 0080	.9291			. 248B	.7290	.7388 .7388 .5971	.2112 .2112	e BETA	FUSELA	. 2390	2608. 2478.	3 1 1 1
9 76		#	1)OREITER	.0000	1.1070			0.01.1	. 6520	. 2735 . 2255 4504 34 i8	- 2532 1540 1	940	CREITER	: :	# # # # !	
DATE 10 FEE		ALPHA (5)	SECTION (x/LB	PH1 20.000 55.000 55.000 70.000	180.000 180.000 180.000	000.000 000.000 000.000 000.000		¥7₽B	H 000000000000000000000000000000000000		= 10 AHD 14	20110HB	m ∴ ×	24.00.00.00.00.00.00.00.00.00.00.00.00.00	

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 11-073-1)

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0.64. .0087 -.0164 .3780 -. 1872 T115. -.2336 (XEBB21) .3010 -.5247 -.5393 -.5+83 -.6034 .830 -. 6086 -.6044 -.6179 .2040 -.6838 -.3907 -.9467 1.0460 -.5860 .:770 .0656 1.0180 . 166¢ 0666 .3913 .4825 .4829 . 1580 -.4577 -.4589 -.2746 -.3811 -.3958 .5841 .9600 DEPENDENT VARIABLE CP .1120 -.3151 -.3147 -.3811 -.5144 . 1248 .9210 1404 .0700 .8790 -.1583 -.2057 -.3419 -.3979 -.5222 .0133 -.0104 4.274 .0460 .0712 -.0601 -.0417 -.1257 -.1116 -.0914 .8210 .3369 .0797 BETA (3) .0230 .1255 .1143 .0717 .0913 -.2463 -.2420 -.0738 .0323 .0969 .0778 .7790 SECTION (1) ORBITER FUSELAGE .0080 -.7390 -.1375 .2184 .7290 .1578 -.2802 11.948 .0000 .2105 .2105 .-3439 -.1505 -.1412 -.1722 .6520 1.0304 -.2191 ALPHA (5) 70.000 70.000 90.000 105.000 110.000 120.000 125.000 165.000 PHI 150.000 181.000 181.000 185.000 18 X/LB

-.1273

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

(XEBB22) (05 AUG 75)

AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

	. 500	4.8530		.5740	0816	1464													
	1 1 1 * Z	RN/L .		.4970	0575	1559	.0953	0.0798	0389		G255	B444							
IC DATA	SPOERK L-ELVN MACH			.3780	0831	1755	.0579	.0382	0369		0597	0750							
PARAMETRIC DATA	.000 -11.700 .000	- 2385.6		.3010	1024	2011	0075	0426	1056	į	1317	1412							
	RUDDER = BOFLAP = R-ELVN =	۵.		.2510	1291	2734	1395	1607	3181	i	 	2342							
	587	594.79		.2040	1555	3356	1291	1786	1961		5 th 10 -	-1.1815	1.0460	2411 2812					
		•		.1770						u. m. m. m.		•	1.0180	3451					
		o		. 1660	1866	3816 3816	0520	0134 0134	.5625		.5692	.3571	. 9990			2872			
		.59680	BLE CP	.1580							2003	. 0303	.9600	3311	0744 1199 1633	1519	1508	1603	
	828	MACH .	DEPENDENT VARIABLE	.1120		3166 3166	. 1865	1375	.345!			.2839	.9210	3057	.0684 0535 0977	1299	0842	0342	
	1076.6800 IN. .0000 IN. 375.0000 IN.	-7.856 M	DEPENDE	.0700	2299		•		•			.2694	.8790	2510	.0323 0131 0943	1439	1152	.1371	
	= 1076. = 375.	r- = (0940.	2189	ง เกาะ เกาะ เกาะ	. 2383	3356	. 4253			3403	.8210	7.2540 7.2565	######################################	0664	. 4704 . 6840	1 0	Df 17.
TA A	XMRP YMRP ZMRP	BETA (1	AGE	.0230	2236	.0169	51.44.	. 5486 63183	.5647			3+E+·	0577.	7.1978 	.0713 :233 :1663	114%.	. 2875. 2655.	50.50 50.00	
REFERENCE DATA	SO.FT.	-4.045	110RBITER FUSELAGE	.0090	. 1299			.7386				.7042	.7230	B) 101 111 111	-, 0048 . 0386	.3817	6583.	000	0000
REFE	2690.0000 474.9000 936.0580	II		. 0000	1.0044							1.0044	.6520	258	20.00 20.00 20.00	3282	0173	10.00 10.00	,
	SREF = 2 LREF = 2 BREF = SCALE =	ALPHA (1'	SECTION (X/LB	PH1 .000	40.000 000.000 000.000	70.000	96.000 120.000	150.00 150.00 150.00	158.000 168.000	1865-800 1865-800 1875-800	500 06:	X/LB	(11)	မရာ ရ ရောင် မရာ ရ မရာ r>မရ မရ မရ မရ မရ မရ မရ မရ မရ မရ မရ မရ	ب ب	٠. د	1 1 1	•

5740 3740 -.0671 -. 0755 -. 1072 4.8533 4.8530 -.0713 0518 0386 0794 .0505 .0505 .0320 .4970 625 .0159 .0102 -. 9±35 -.0007 Ž Z -.0713 .0097 -.0115 -.0413 -.0633 1711.-.0284 .0080 -.0115 .3780 -.0395 .3780 -.0298 -. 052t -.0241 (XEBB55) 2385.6 2385.6 -.0424 -.0698 -.1032 -.2393 -. 1055 .3010 -.0833 -.1036 .3010 -.0757 -.0915 -.0910 ..1421 -.1810 -.2199 -.2332 -. 2886 -. 2886 -. 2886 -.2131 -.2022 . 83.00 .1128 .25.0 -.1137 -.2070 - 1564 -.2766 -1.1540 - 1392 - 1727 - 2691 - 2034 - 1892 - 2691 - 2462 - 2724 .2040 1.0460 .2040 594.79 AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE .1770 -. 3+09 -. 26+9 1.0180 0771. .9990 -.1590 -.1795 -.2474 -.2072 -.1968 -.1968 - 1650 - 2024 - 3039 - 1832 - 1832 - 1029 - 0801 .5560 .1660 . 1660 5015 .4643 a -.2015 -.1805 -.1775 -.1632 .59680 . 1580 .9600 .59680 .6954 .1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 . 1120 -.2203 -.2203 -.1685 -.0712 -.0567 -.2608 -.1441 -.1441 .0047 .0396 .3192 .9210 -.3097 -.2484 -.0313 -.0909 3256 . 189 MACH -3.843 MACH .0700 .0700 -.2044 -.2642 -.2642 -.0622 .0540 .1188 .3095 -.2508 -.2309 -.0189 -.0748 .8730 1752 - 2537 -.2503 .1522 .1555 .0460 -.1850 -.1996 -.1944 .0039 .1335 .2209 .3807 .8210 1114. .4401 .0460 . <u>.</u> BETA (3) -.0194 .2249 .3053 .4138 2191 2816 2814 2458 2458 .0230 .4722 .7790 . 0230 BETA SECTION I LIORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 .0080 .1785 . 173¥ .7290 -.0428 .0099 .0737 .1043 .0909 .4502 .7234 -. 1+58 -3.957 -3.970 .0000 2511.7 1908 1.01.5 1919. .0438 .0391 .0217 .0003 .6520 0332 1.0492 1.0492 1.057 ALPHA C 13 ALPHA (1) 20.000 40.000 55.000 70.000 90.000 20.000 55.000 90.000 90.000 1140.000 151.000 151.000 165.000 165.000 174.000 .000 40.000 70.000 90.000 110.000 1110.000 135.000 185.000 185.000 Ħ ī メバー

DATE 10 FEB 7C

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

(XEBB52)

4, PHA (1)	u u	3.957 Bi	BETA (3)		. 169										
SECTION (SECTION (1)ORBITER FUSELAGE	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE	RE CP								
X/LB	. 0000	.0080	230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.8310	.3010	3780	.4970	5740
PHI 140.000 150.000			.4781	.3706	.2821	.2734		.4127	.0331	3523	86×2.	0922	0248	.0120	
165.000 179.000							Ċ	.5224	. 09 . 8	9253	2011	0867	0269	.0153	
180.000	1.0574	.7219	0684.	. 3962	.3180	.3313		. 5092	•	-1.1274	. 1841	0813	0258	.0163	
ยา/x	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PHI 000 40,000 70,000 94,000 105,000	1041 1600 0336 0006	1455 0663 0172	1875 1832 0070 . 0490	2585 2465 .0891 .1180	2491 2311 0587 1305	3058 2456 0620 1258	3374 2975 1123 1551		3465 2647	· . 2265 1938	>				
150.000 150.000 150.000 165.000	. 0469 . 0469 . 0469	. 1067 . 1067	. 1534 . 2375 . 2550 . 2445 . 2514	.5005 .4435 .4715	3416 2612 2066 0606	2749 1903 2009 1979	2562 2181 2140 1705								
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រដ្ឋ			.3973	41 IE.	.2149	.2013		.2881		5521	2555	1137	0555	0143	
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DATE 10 FEB 76		ALPHA (1)	SECTION (X/LB	PH1 180.000	X/LB		120.000 135.000 150.000 165.000	ALPHA (1)	SECTION C	X/!_B	114 000 000	40.000 40.000	90.000 120.000 120.000	150.000	152.000 165.000 159.000	174.000	X/LB	PH1 .000 \$0.000

(XEBB55)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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£5 11-073-1	SAB B			9£ 36		o		. 1660	1229	1845	0780	.0827	.4621	į	.3961			
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TABULATED		BETA ()	JOE	.7790	.1339	BETA (2)	¥	.0230	03:1		. 4387	.4711	+30t		.3550	0677.	- 1473 - 1444 - 0136 - 0449	. 1909 1749 1849 189 189
			R FUSEL	.7290	710c.		R FUSELA	. 0080	.3536		.5986				.5993	.7290	0931 1183 0614	.0651
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		BETA (3)	4 GE	.0230	0275	0083	. 27.10 87.73.	97.5	3715	.3892			.3738	0677		- 1451		.0713	1151.	. 2035. L.:	2118	.2199	TA : 43	Ж	. 0230					.2607
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	<u>ર</u> િ			.3780	0598	0591	0614				RN/L		.3780	0517	0351	0463 0463 0743	095€	0978
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1-073-1	ORB			.1660	. 4585.	. 6904	.4199	1 0666		2 02 2 03 2 04 2 04 2 04 2 04 2 04 2 04 2 04 2 04	a		.1660	- 1419	.1570	2523 2926 2865	1194	3206
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- 0A148			VARIABL	.1120	. 1558		.2386	.9210		. 3319 . 2719 . 3094 . 3029		VARIABLE	.1120	u C	1481	1525 1751 0750	.0613	
PRESSURE DATA	AMES 11-073(0A148)	. 250	DEPENDENT VARIABLE	.0700	.1494		.2128	.8790	2319 2196 1910 3071	.4384 .3846 .3504 .2182	110 MACH	DEPENDENT	.0700		ດ ເຊິ່ນ ເຂີຍ		.0509	
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		53 BETA	PUSELA	.0080			.5641	.7290	0958 1665 0994	0416 .0338	SB BETA	R FUSELA	.0080	.3129		0860•		
3 5		063	11 ORBITER FUSELAGE	.0000			1.0611	.6520	0571 . 0662 1497 -	058* 0111 0090	= .058	11 ORBITER FUSELAGE	.0000	1.0108				
DATE 10 FEB 76		ALPHA (2) :	SECTION ()	X/LB	PH1 1+0.000 150.000	162.000		X/LB		120.000 135.000 155.000 165.000	ALPHA (2) "	SECTION (X/LB	PH1 000	40.000	70.000 90.000 120.000	140.030 150.000	151.680 162.000 167.889 145.000 17.000

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SECTION (1) ORBITER FUSELAGE	1.10RB1TI	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
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PH1 180.000	1.0108	.4883	.3178	.2173	. 1653	197		.32	•	-1.3037	2750	1661	1620	0751	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
74. 70.000 70.000 105.000 135.000 155.000 155.000 155.000	0675 0611 1594 1106 0772	0978 1899 1281 0846	1509 1343 1227 0709 0325 0150 .0639	1966 1966 0302 0318 1292 170 170	2301 2199 1499 3584 3566 5025 5681	3016 2284 1179 2051 2525 4159 4108	33% 2415 1362 1884 2327 3391 3018	3855. • 18∳5. •	- 3461 - 355.	2382 1544					
(5)	= 3.933		BETA (1)		.913	MACH =	. 59760	0	986	596.20	• •	- 2385.0		•	08580
SECTION (1) ORBITER	R FUSELAGE	ige 1		DEPENDENT	NT VARIABLE	9. co								
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150.000			.3243	.2071	. 1407	.1806		₩894		5739	4792	2062	1281	1102	
165.000 169.000 174.000							6	.4537	-1951	.2895	3413	2034	8611.	0953	
180.000	1.0280	.4383	.1974	. 1212	₩680.	.1349	0600.	.2351	7	1.5253	3005	1792	1082	085t	
K/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	. 9990	0.0180	1.0460					
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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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K.PHA (3)

5740 .0326 140. - 0235 - 0298 - 1082 .4970 nea. .0149 -.0560 -.0624 -.0517 .3780 .0216 .0427 .0538 .1226 -.0014 -.0818 -.0842 1.03 2385.0 -.0894 -.1167 -.2779 .3010 -.0287 -. 1449 -.0007 -.1617 -. 1738 -.1914 -.2202 -.3040 .8510 -.3007 -. 0524 -.0417 -.4147 -.2686 1.0180 1.0460 .2040 -.0648 -.0781 -.0873 -.1520 -.1520 -.2840 -.2840 -.2910 -.5913 -.2002 -1.4603 -1.24.7B 1.0460 596.20 -.3519 -.757 .170 .0396 1.0180 0666. -.2692 -.2020 .1660 -.0698 -.0783 -.0783 -.0471 -.0463 9990 -.2007. 14435 .3315 4205 -.1453 -.1910 -.1761 -.1638 .59760 .9600 .1580 .9600 -.3241 -.2776 -.0807 -.1322 .5910 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0811 -.0247 .0401 .0782 .0865 .0311 -.0384 -.0860 - 1444 - 1474 - 1350 - 0657 .9210 MACH .1120 .1589 .9210 . 2059 . 2059 . 0155 . 0813 1795 -.1877 -.1761 -.1772 .0014 -.1929 -.2092 -.2403 -.0770 .8790 .0700 -.0317 -.0429 .0143 .1291 .1339 .1415 . 1256 - 1994 - 1946 - 0187 - 0649 - 1465 .1403 -.2546 -.2466 -.2553 .8790 -3.656 . 1672 . 2174 . 3655 .8210 .2119 .5224 .3707 .1141 -.1812 -.1687 .1088 .1500 .0460 .0302 .0397 .0950 .0950 .2069 .2339 .2359 2065 . 1834 .8210 .3376 .3134 .2125 BETA (2) -.00%8 .0510 .0879 .1289 .1834 .1797 .1421 -.0981 -.0875 -.0534 .0104 . 1790 .0230 .1177 .1562 .3069 .3930 .4126 .4180 . 1639 .2166 .715. 3154 .2324 .138 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.1446 . 7290 -.0903 -.0167 .0080 5298 -.0173 1158 .7290 .0248 5697 ..0368 -. 1**88**4 -. 1228 -.0448 3.936 -.1048 -.0875 -.0853 -.2061 -.1436 .0058 .0058 .2322 .1581 .6520 -.2036 -. 1427 .0000 1.0636 .6520 -.0517 .0636 ALPHA (3) 70.000 90.000 110.000 1110.000 135.000 185.000 20 000 55 000 56 000 57 000 120 000 1120 000 1151 000 1152 000 1153 000 1154 000 1150 000 40.000 70.630 90.000 105.000 110.000 120.000 135.000 X/LB X/LB

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BETA (2)

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			4.8680		.5740	.0346	.0571													
			•		0.4970	.0352	.0205	0386	0636	0386	0358	0327								
			FRV.		.3780	.0093	.3188	0583	0847	0572	0500	0567								
			- 2385.0		.3010	0199	0049	1189	2579	1496	₹ <u>₹</u> 1:-	1317								
			•		.2510	0471	0483	2558	3226	3609	2775	2549								
	1.0460		596.20		.2040	0613	0911	1497 2080 3014	3708	6366	-1.2035	-1.4343	1.0460	-,2187	1749					
	1.0180		# 20		.1770						. 0365 - 0365	•	1.0180	-, 3489	2578					
	3666.		o		.1660	0675	0701	1154 1208 1208	0202	.3331	.409 <i>2</i>	.3798	.5990				2757	1986		
BLE CP	.9600	1656	. 59760	BLE CP	.1586						į	٠٥/c.	. 9603	3177	272+	1459	2013	2099	2149	1726
DEPENDENT VARIABLE CP	.9210	1512	MACH	DEPENDENT VARIABLE	.1120		0377	00. 90. 90. 90. 90. 90.	.1163	.1521		.1803	.9210	-,2799	2041	1251	1764	24.25 14.25	2339	2386
DEPENDE	.8790	0293	.172 M	DEPENDE	.0700	0249	0097	.0397 .0483	. 0824	.1126		. 1299	.8790	1977	1933	1325	c. 13	3081	2755	1290
	.8210	.3001			.0460	. 0323	. 0694 10694	1283	.1736	. 1969		7171.	.8213	1833	1616	. 070.	. 0939	1132	3288	.4087
AGE	.7790	.1848	BETA (3)	AGE	. 0230	1109		. 3035 . 3035	.3109	. 2802		. 2540	0677.	0965	0811	0156	e len	1427	35	.1783 .1749
ER TUSEL	.7290	.0360	3.935 B	ER FUSEL	. 0080	.5316		.4206				. 4476	.7290	0358	0	1351		0297	.0351	. 0403
1.0088; 7	.6520	0411 0492	a	1.10RB1Ti	.0000	1.0732						1.0732	.6520	. 0064	.0005	1676		1015	0263	0239
SECTION (1) ORB; TER FUSELAGE	X/LB	PHI 165.000 180.000	ALPHA (3)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI .000	200 kg	70.000 90.000 0000	120.000 140.000	150.000	162.000 165.000 169.000	180.000	X/1.B	PH! .030	40.000	90.00	110.050	120.000 135.000		165.030 180.030

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2		9890		200	.0309	.0565								•				4.8680		5740	.0109	.0462		
PAGE		•		0.64	.0250	6800.	0485	.0426	.0373	.0378	9440							<i>;</i>		0.64	.0183	.0150	- 0558 - 0:39	3
	(S)	N. C.		.3780	.0023	. 0022		_	- Drog.	0625	- 10201									.3780		6420.	0012 0708 0572	
	(XE8822)	2385.0		.3010	. 0242	. 0255	1335	•	- 62									2385.0			•	•		
		,	,		1	•			•	1433	- 1409							23		.3010	0413	0644	- 1456 - 1554 - 2475	
		۵		55.	0570	0830	2567	545	. 3645	2690	2662							Q .			0691	1296	2988 3694	
		596.20		.2040	0674		2522	5238 5238	0.000	-1.2036	-1.4226	1,0460		2254			:	R		.2040	.0838	208	2952 4155 5109	
· .	FUSEL AGE	* 59		.1770					1756		•	1.0180		2497 2437				23.980		.1770	• •	• •	• • •	
0A148 (AMES 11-073-1	8	0		. 1660	.0741		1919	ייבצל.		.3535	.3585	.9990			2796	6163	•	3		.1660	0870	. 1923	2245 2346 2361	
18 (AME!	-140A/B/U/R	.59760	BLE .	. , 580						1	6+1C.	.9600		3236 2502 1226 1623		2542 2542 1753	Rozen	00160	გ ს	.1580	••	••	• • •	
1	11-073(04148)	MACH	INT VARIABLE	.1120	0817	0682 0812	0661 0651	.1039			. 1686	.9210		2784 2063 0985 1581		2686 3089 3000	MAC N	•	T VARIABLE	.1120	1000	. 1079 . 1456	1316 1406 0567	
PRESSURE DATA	5 11-07	4.240	DEPENDENT	.0700	0435	0461	0456 0451	.0731			. 1218	.8790		1983 1983 1955		3883 3580 2356	9.292 M		UEPENDENT	. بر700			. 1331 . 1362 	
	AMES	· · ·		.0460	.0238 .0154	.0195 0290	.0173 .0843	. 1560			.1686	.8210		1833 1583 . 0050 . 0004	0170		a			.0460	88	5 m		
TABULATED		_	AGE	. 0230	. 1066 . 0997	. 168 8. 4	. 1894 . 1894 . 2176	. 2258			.2518	.7790		0807 0807 1221	.0506	.1326 .1631 .1606			Ŗ.	.0230				
		4.026 E	1) ORBITER FUSELAGE	.0080	.5123		.2471		·		.4150	.7290		0352 2334 1570	0613	.0350	30 BETA			.0090	.4838		.0727	
FEB 76				0000	1.0574						1.0574	.6520		.0056 .0087 2598 1745	0918	0375 0345 0426	= 4.030	110001160		. 0000	1.0033			
DATE 10 FE		ALPHA (3)	SECTION (X/LB	PH1 -000 -20.000	55.000	90.000	150.000	162.000	169.000 174.000	180.000	X/LB	ā	40.000 77.000 95.000	116.000		A: PHA (3)	CTION	• •	M/LE		25.070	90.000	

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DATE 10 FI	FEB 76		TABULATED	Œ	ESSURE DATA	A - 0A148	•	AMES 11-073-1						PAGE	330
				AMES	S 11-073(0A148)	(04148)	-140A/B/C/R	e Ba	FUSELAGE			(XE8825)	822)		
ALPHA (3)	•	4.030 E	BETA (5	•	8.278										
SECTION	(1) ORBITER	IER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	BLE CP								
X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	2040	9510	.3010	.3780	.4970	.5740
PHI 140.000 150.000			.1376	.0812	. 0031	.0251		. 0955	3196	5872 7399	3203	1558	0822	0614	
165.000 169.000								.2807		-1.2044	2903	1665	-, 0969	0747	
: 90.000	1.0033	.3507	.2076	. 1258	.0738	.1264	. 4523	.263t	•	-1.4413	2977	1798	1117	0922	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PHI - 000 - 40 - 000 - 40 - 000 - 60 - 000 - 60 - 60 - 60 - 60 -	0026 .0090 2605 1863	0420 2604 1789	0993 0839 1683 1015	1874 1592 0418 0505 0493	1996 2022 1546 2348	2819 2045 1231 1980	3266 3275 1383 1861		3441	2249 1440					
135.006 135.006 150.000 165.000	1053 0685 0775 093:	1635	0059 .0735 .0856 .0888 .1188	0445 .0857 .2768 .2425	5098 5089 5142	3818 3501 4104 4005	2985 2947 3004 1847	<i>e</i> 7 <i>e</i> 1 <i>e</i> 335							
ALFIB (+)	r;	901 91	BETA (1)	r- •	.895 MA	масн	.59758	o	- 596	8	.	2385.1	J/NE	•	4.8592
5 KG113 5	1 1 OMB TER	ER FUSILAGE	ACC		DEPENDENT	T VARIABLE	P.E. CP								
X/LB	.0000	. 0680	. 3230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.8510	.3010	.3780	.4970	3740
- CCC	.9927	.6394	. 3033	. 1571	1 440	2600		0337		0288 0316	0236	.0021	.0326	.0694	. 0802
			. 5503 5503 5003	3502		. 1568 . 1568		.0199 .0644					1670.	-082·	191
រដ្ឋកូច្		.6349	.3515 .3512	.3096 .3096 .2110	. 2248 . 153	.1528		.0374 .0374 .1016			1543 1933 3509	0836 1207 4145	0760 3069	0425 0659 3179	
0.00			.1878	.0918	.0420	. 1009		.4210		4013	5607	2544	1682	1579	
188.003 188.003 188.003 174.000							5608	.3973	.0230	.4361	3807	2207	- 1335	1257	

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PAGE				0764.	1022				•		. 4970	. 0842	. 0761	0737 0850 2186	. 1031	0823	1990		
	(23)			.3780	1145				PAY.		.3780	8040.	0690	- 0830 -	- WII	- 1961 -	67773 -		
	(XE8825)			.3010	1822				2385.1		3010	·\$10.	.0%61	1504	2007 -	. 1%1	1537 -		
' '	'4 ' '}			.2510	3108				n Q.		S.	0048	.0067	2099 2352 3564	4790	3363	2840		
				.2040	-1.7551	1.0460	2093		596.20		.2040	0155	0162	1419 3307	6936 	-1.3945	1.6263	1.0460	2142
-	FUSELAGE			0771.		1.0130	3522		6 6		0771.				02.00		•	1.0180	3339
0A14 } (AMES 11-073-1	98			. : : : : : : : : : : : : : : : : : : :	.1710	.9990	- 865 855 855	י לומ	0		.1660	~.0108	0.0141	0359	.3807	.3895	.2726	.9990	
3 CAMES	-140A/B/C/R		SLE CP	.1580	•	.9600	3083 2586 0401 1027	1 100 1828 1667	.59758	BLE CP	.1580					į		.9600	3032
•	11-073'04148)		DEPENDENT VARIABLE	.1120	.0630	.9210	2517 1651 0389 0313	1763 1621 0744	MACH .	NT VARIABLE	.1120	Cycl	.0683	.0869 .0824 .1156	1961		.0952	.9210	2513
TABULATED PRESSURE DATA		-7.896	DEPENDE	.0700	.0087	.8790	1670 1616 0475 0504	2998 2998 0576	-3.861 m	DEPENDENT	.0700	.0672	1239	1382	. 9. 9.		.0342	.8790	1604
TED PRES	AMES	11 = -7		.0460	3440.	.8210	1332 1089 .1716 .2200 .3846	.3232 0695 1392			.0460	.1324 5331	91.0	2.00 2.137 1631	.1106		.0748	.8210	1254
TABULA		BETA (1	AGE	. 0230	.0775	0677.	0458 0228 0371 .0235 .0528	. 1345 . 1476 . 1226 . 1074	BETA (2)	i e	. 0230	.2582 3775	1,292	.4067 .3770 .2953	. 1843		.1127	.7790	0377
		7.901 B	1) ORBITER FUSELAGE	.0080	.2858	.7290	-5115. -5115. -1518	0518	7.913 81	TR SELAGE	.0080	.6757		.5092			.2837	.7290	. 0292
8 76				.0000	.9927	.6520	.0639 .0810 3089 2411	1475	- 7.9	1.10RB1 TER	.0000	1.0255					1.0655	.6520	.0761 .0837
DATE 10 FEB 76		ALPHA (4)	SECTION (x/L8	PH1 180.000	X/LB	741 - 000 -	135.000 150.000 165.000	ALFHA (4)	SECTION (X/LB	144 000.	40.000 15.000	20.000 120.000 120.000	150.000	169.900 169.900 169.900	180.000	X/8	000 000.

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(XEBBSE)

AMES 11-073(0A148) -140A/B/C/R ORB FI:SELAGE

-3.861

BETA

7.913

ALPHA (4)

57.0 .09±3 1202 -. C898 -. 0969 -. 1373 0724. .0845 .0638 -. 0599 -.0550 -. 0536 Ž 3780 -.1055 . 9±86 .0531 -.0815 -.0585 -.0670 2385.1 .3010 -.1551 -.1689 -.3164 .0178 .0180 -. 1523 -.1385 -. 1692 350 -.2523 -.2743 -.3638 -.0291 .0000 -.4066 -.3015 -.2789 -.0123 -.0244 -.0489 -.1559 -.2989 -.3926 -.3926 .2040 -1.3+06 -1.5376 1.0460 .9990 1.0180 .1770 -. 0973 -. 1049 -. 3509 -. 2578 1.0180 -.2540 -.1912 -.0067 -.0143 -.0164 -.0837 -.1105 -.1143 . 1660 .3005 .3517 .3185 .9590 -.2671 .9630 -.0626 -.1220 -.1734 -.1734 -.2082 -.1950 -.1708 . 59750 . : 580 -.20+9 -.2242 -.2153 .5146 .9600 -.3073 -.2457 -.0960 -.1457 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0014 -.0713 -.1225 .9210 -.1932 -.1919 -.1538 .1120 0055 0308 0038 0069 0045 0711 .0903 .9210 -.2517 -.1725 -.0538 -.1244 -.1712 .1084 .175 MACH -.0098 -.0523 -.1329 -.2684 -.2729 -.2735 -.0587 .8790 .0700 .0575 .0575 .0873 .0690 .0386 .0426 .0538 -. 1649 -. 1665 -. 0732 -. 1397 .0362 -.3026 -.3158 -.3107 .8790 .8210 .1066 .1462 .2670 .2020 .1479 .1376 2763 .0460 1502 1707 1543 1553 1163 1013 .0865 .0968 8210 .1101 .2450 .3999 DETA (3) .7790 . 1557 . 1946 . 1896 . 1522 . 1413 .0230 .2632 .2809 .3397 .3185 .2842 .2703 .1668 . 1278 .7796 .1032 (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE . 7290 -.2534 -.1828 -.0921 .0002 .0090 .0080 .6838 3532 .2793 . 7290 .0332 -.2832 -.0721 -.0109 8.049 -.3509 6520 -.0977 -.0794 -.0787 -.2407 .0000 1.0331 .5520 .3596 .3596 .3596 -.0749 1.0331 . 1658 ALPHA (4) PH1 70.000 90.000 110.000 125.000 135.000 150.000 165.000 SECT ION 20.000 40.000 55.000 70.000 170.000 150.000 151.000 165.000 165.000 165.000 165.000 .000 40.000 70.000 90.000 105.000 110.000 120.000 150.000 X/LB Ξī Ĕ X/LB

(XEBB22)

TABL
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ULATED PRESSURE DATA - 0A148 ; AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				4.8692		3740	£686.	.1017												
				•		0764.	.0805	9040.	1045	0979 0822	0532	3521	0584	•						
				1 KSA/1		.3780	*0*0°	.0109	1280	110g	0596	9729	0807							
				- 2385.1		.3010	.0140	0249	1745	1776	1579	1474	1503							
				۵.		2000 1000 1000 1000 1000 1000 1000 100	0056	0857	2840	2982 3635	3570	2871	2832	•						
		1.0463		596.20		.2040	0167	0394	2070 2599	3525 4525	5768	-1.3168	-1.5213	1.0460	2185	1496				
		1.0180		# 29		.1770					8	2065 2065		1.0180	. 3465	2347				
		3666 .		O		. 1660	0087	0324 0564	1486	1775	.2023	2995	6962.	9880				2063		
	BLE CP	.9600	1749	.59758	BLE CP	. 1580							. 4608	.9500	3104	2160	1644	5445		- 1668
	DEPENCENT VARIABLE CP	.9210	2552	MACH .	DEPENDENT VARIABLE	.1120		0130 0211	0839 0659	0649	.0570		.0553	.9210	E465.	- 1780	1655	2978	3285	sc45
.175	DEPENCE	.8790	1555	4.238 M	DEPENDE	.0700	.0574	. 0341 . 0248	0170	0434	.0013		.0341	.8790	-, 1602	1690	2046 3126	3987	40137	6740
,		.8210	.4290			.0460	.1338	. 1161 . 0888	.0431	.0341	.0676		.0752	.8210	-, 1285	- 1086	0232	.0672	3379	₹J.5.
BETA (3)	4GE	.7790	. 1383 . 1502	BETA (4)	AGE	.0230	£.	.238; .2381	.1904	. 1592 1488	. 1212		. 1282	.7790	0376	0203		6301	1326	1190
8.049 Bi	R FUSEL	.7290	.0138	8.049	ER FUSEL	.0080	.6653			.1970			.2563	.7290	9968			1158	0175	. 0082
9.6	1.10RB1TE	.6520	0607	# 8.(11098116	.0000	1.0137						1.0137	.6520	100	600	2769 2769	1470	0672	060 8 0822
ALPHA (4)	SECTION (1) ORBITER FUSELAGE	X /LB	PHI 165.000 180.000	ALPHA (4)	SECTION (1) ORBITER FUSELAGE	87/X	PH1 .000	20.000 40.000	55.000	90.000	150.000	151.000 162.000 165.000	180.000	й1/ х	£	1,0.000	70.000 70.000 105.000	110.000	135.000	165.000 185.000

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TABULATED PRESSURE DATA
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DATE 10 FEB 76	£8 76		TABULATED		SSURE DAT	FA - 0A14	PRESSURE DATA - DATHB (AMES 11-073-1)	11-073-	1.					PAGE	335
				JM2	.S 11-07:	3(0414B)	AMES 11-073(0A148) -140A/B/C/R DRB FUSELAGE	C/R 0RB 1	FUSELAGE			(XE8822)	822)		
ALPHA (5) =		11.963 B	BETA (1)		-7.860										
SECTION	(LLOCABILL	SECTION (1) OPBITER FUSELAGE	AGE		DEPENDE	DEFENDENT VARIABLE CP	BLE CP								
хлв	.0000	.0083	.0230	.0460	. 6700	.1120	. 1580	.1560	. 1770	.2040	.2510	.3010	.3780	0.4970	07/6
E G															
150.000			.0458	0261	S#80	1000		7705		4769			8	3	
151.000			!						.0198	. 1363	orao.	6300	<050	KUB3	
165.000									05#8	-1.5741	+804	2465	1608	1610	
17.000							9001	. 3393							
180.000	. 9263	.1058	0415	0549	0805	0029	. 1863	.1074		-2,0053	3251	1810	1269	1309	
X/LB	.6520	. 7290	.7790	.8210	.8790	0:26	.9600	9990	1.0180 1.0460	1.0460					
i H															
. 000 . 000	139¢	. 0835	.0189	0733	1203	ei77	2847		3452	2193					
70.000	- 45.0	2901	0729	1551	ניקי.	\$ 10 E	- 2378		2481	1911					
90.000	3399		0139	-2119	12.0	0275	0977								
110.000			₹ 555.	. 3843	0+B1	0763	1530								
120.030	4654	2336	.0013	.5240	2554	1855		2281 2281							
150.030	. 2050	1960	. 0325 . 0325	0796	3090 3470	2117	2363								
165.000	1934		.0463	i	.0331	0780	1682								
200.00	- 700	1 190	90:00	2.5											

. 1585 .2011 0727. .1508 .1413 . 3608 . 3608 -. 1504 -.1161 TANK! -.1339 -.1562 -.3645 3780 . 1022 .1169 -.1379 -.1189 2384.9 .3010 .0923 .1562 .315 exco. 100 5577 . 20to -1.5357 596.+3 170 -. 0466 -. 0923 . 1660 . 0350 . 0350 . 0350 . 0350 . 0350 3427 .3354 DEPENDENT VARIABLE CP .1120 1527 1527 0854 0764 0542 MACH .1719 .1767 .2336 .1831 .1133 .0700 -. 0531 -3.840 .0460 .2565 .2882 .3280 .2791 .2101 .1665 .0034 . 0230 .4089 .4521 .5156 .4597 .3752 .3089 9470 BETA 11 ORBITER FUSELAGE .0090 .8124 ¥198 11.985 .0000 7649. ALPHA (5) 26.660 26.6000 26.6000 26.6 SECTION

TABULA : ED PRESSURE DATA - DA148 (AMES 11-073-1) DATE 10 FEB 76

(S)

BETA

11.9955

4. PHA (5)

(XE8822) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

200

5740 5740 .1592 .1874 -.0848 -.1508 -.1591 -.2357 .4970 . 1505 .1087 -. 1052 -. 070**6** -.0763 3780 -.0879 -.1636 -.1634 -.2538 .0802 .3780 .1071 -.0744 -.1143 -.0799 2384.9 .3010 -.2054 -.2130 -.3978 -. 1524 .3010 .0784 .0368 -. 1449 -. 1935 -. 1546 .8310 -. 2975 -.2901 -.3035 -.4067 500 -.0263 .0547 -. 2832 -.4490 -. 3217 .2040 -1.8743 -.2047 .2040 1.0460 -1.7015 -.2112 -1.4519 1.0460 -.3254 1.0180 .170 . 130 -,3383 1.0980 . 1660 .2088 9990 .0568 .0578 .0355 -.1026 -.1062 -.1175 . 1660 .9990 .2695 . 2966 .2561 . 1580 .9600 . 1580 .59774 .4613 .9600 -.2086 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2184 -.1260 -.0019 -.0698 .1120 -.2087 -.2067 -.1908 .0357 .9210 .0897 .0912 .0018 .0048 .1120 -.2244 .0270 .0462 .9210 MACH .1752 .1591 .1510 .0 726 .0 26 .06.33 .0700 -.1170 -.1207 -.0203 -.0543 -.1265 -.2776 -.2733 -.2152 .8790 -.0449 .0700 -. 1213 -. 0290 .8790 -.0418 181 -.0591 -.0372 .0770 .1338 .0460 .8210 -.0112 .1671 .1387 .2460 -.0076 -.0730 .3911 2623 2623 2498 1576 0978 0677 .0460 .0052 .8210 .0230 -.0073 .7790 . 0230 .4197 .4197 .4188 .3241 .2506 .2110 0440 .0284 .0072 .7790 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 .1157 -.0248 .7290 -.3377 .0958 .0080 -.0892 -.1033 .8183 . 277B 8460. .1090 .7290 12.000 .0000 . 1455 . 1765 -.4935 -.3552 .9197 .6520 -. 3238 -. 1885 .0000 .960± 6520 . 1521 ALPHA (5) .000 70.000 90.000 105.000 110.000 125.000 155.000 156.000 156.000 180.000 20.000 25.000 70.000 90.000 1120.000 1140.000 151.000 162.000 163.000 163.000 174.000 X/LB X/LB X/LB

AMES 11-073(0A148) -14 JA/B/C/R ORB FUSELAGE

					Ā		5740	1535	.1578							
					4.873		•									
					٠.	,	.+970	.1472	.0710	1915 1616 1398	0820	0725	0882			
					RNAL		.3780	.0979	.0224	1915 1673 1642	0794	0721	0851			
					2384.9		.3010	.0662	0346	2333 2223 3320	1704	1523	1559			٠
							.2510	.0481	1022	3170 3226 3897	3890	3016	2939		,	
		1.0460			596.43		.2040	9.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0946 0946		6132 8109	-1.4050	-1.7208	1.0460	2119 1349	
		1.0180			396		.1770					2502 2502	1	1.0180	3403 2183	
		. 999¢	9 19 0	1983	œ		.1660	.0574 079	0354 0354	1691 1895 1108	.1719	.2502	. 2390	.9990		3014 2172
	NE CP	. 3600	318 1318 1936	1970 2265 3178 720	.53774	LE CP	.:580						61 I 2 .	.3600	:806 936 279 :607	. 2571 . 2556
	DEPENDENT VARIABLE	.9210	0584 1192 1743	2415 2443 2574 2605	MACH .	DEPENDENT VARIABLE	.1120	į	.0155	0709 0769 0178	.0083		.0367	.9210	2157 1495 1133 1639	3113 2784 3297
.181	DEPENDE	.8790	1451 2252	3039 3312 3240 1698	4.252 M	DEPENDE	.0700	. 1538	. 0825	0801 0549 0872	0682		0435	.8790	1176 1398 1496 2210	4133 3908 4212
		.8210	.0164 .0461 .0877	.1649 .3145 .4878 .4475	<i>*</i>		.0460	.2503	. 1685	0098 0098 0278	0169		0169	.8210	0715 0507 0550 0664 0664	.0192 .3677 .4223
BETA (3)	10E	.7790	1867 0866 . 0041	.0577 .0362 .1048 .1309	TA (4)	JGE 1	.0230	.3943	3000	1280 1107 10693	.0216		.0095	.7790	.0260 .0377 2132 1354 0755	0517 .0708 .1210
	110ABITER FUSELAGE	.7290	<i>377</i> 6 <i>2</i> 621	1132 0730 0034		= 12.027 BETA 1)ORBITER FUSELAGE	.0080	. 7943		.1138			.0823	.7290	.0969 3918 2905	1673
12.000	1.10RB1TE	.6520	5085 3630	2153 1481 0903 0877	= 12.027	1) ORBITE	.0000	.9417					7146.	.6520	. 1421 . 1511 . 5092 3699	2016
ALPHA (5)	SECTION (X/LB	PHI 70.000 90.000 105.000	135,000 135,000 150,000 165,000	ALPHA (5)	SECTION (X/LB	FF000	40.000 10.000	70.000 90.000 120.000	140.000 150.000	151.000 162.000 165.900	174.000	X/LB	PH1 40.000 70.000 90.000	

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PAGE						•		.4970		÷05 : .	.0360	2157	1678	- 1096		0816	9	1062	1438
						RN/L		8	•	2	7		·						
	ଥି							.3780	Š	ncsn.	0307	F 400	1612	1071	į	U/cs	Š	0924	1301
	(XE8822)					2384.9		.3010	į	ζ									
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								015%	į	.020.	2148	828	3302	3757		- - -	Ų	2	3345
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				1.0460		.43		.2040	2200	0380	- 1952	9002	394	5112	6469	0120.	2636	-1 - 50c3	-1.77.17
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1-0/0-11 cars onto a mind tracers as	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE			9880		ø		. 1660	0720	0130	1298	2321	2371	1870	0530	6660		. 1821	. 1401
ת ת	/9/E/		•	9	9	.				•	•	řř	ĭ	ľ		•			
2	-140A		DEPENDENT VARIABLE CP	.9600	1700	.59774	RE CP	. 1580										730	9390
5	684		AR1A	.9210	3361		DEPENDENT VARIABLE	.1120		210	7.570-	. 1473	314	0745	Q O	3			121
	310A1		ENT V	ij	1	MACH	N IN	-:		•	0,0	ų -	1314	0	C 10	•			0121
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	₹	B		.8210	.3991			.0460	2348	1689	- 1067	- 1200	- 1146	1086	0689				0651
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		¥.	ы	.730	.1097 .1012	~ ∀	Ж	. 0230	198	ξ.	- 50 E	0107	.002	.09	0467))			0273
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		757	5	.7290	0306	021	E.	.0090	.7559				0739						.0099
		12.027	781 TE	.6520	329 167	12.070	781 TE	0000	.8794										ភ្ជុំ
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-. 2257 -. 1573 -. 1466 -. 2051 -. 2902

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.0228 .0370 -.2432 -.2064

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PAGE 339	(05 AUG 75)			6 6	•		04/G. 0/6t.	05830576	09330630	.0214	0286	0606	0808		/ OED : -						
	(XE8823) (TRIC DATA		מין מין			08/5	.0357	5 0840		- 1560	3 1062	31167	<u> </u>							
	Ĉ	PARAMETRIC		: :		6.02	_	70310	01495	90981		5 1693	91638	1421							
			RUDDER BDFLAP R-ELVN	۵	•	0.50			1700	75 - 1889 75 - 1664		02895	32449	, 2890		•	m c	7 1			
	AGE.			598.38		70 2000		0687	1670	1375	940	•	. 1453	5.245	-		2633				
073-1)	-140A/B/C/R ORB FUSELAGE					350 .1770		63	233 33] [32]	03	•	.7963	ā #5	90 1.0180		900		C ii	ļ.	
AMES 11-1	A/B/C/R (o Ž	8	90 .1660		0600	0.1	2851	.5603	.9913	-	, 300.1 4686.	•		ωσ) <u>o</u>	1647		7
UAIMB 1 AMES 11-073-1				- 1.3924		20 .1580		81	338	800	0	ES.		1.089	0.9600		27.27.50		•	5 .0515	•
* * * * * * * * * * * * * * * * * * *	11-073(0A148)		N. XO N. XO 2000	MACH	DEPENDENT VARIABLE	00 .1120	1200			82 .2168 35 .2650		35 . 5523		9523. 73	0126. 00			0565 9 .0447	•	0 .0685	
1633676	AMES 11		1076.6800 .0000 375.0000	-3.856	DEPE					92 .3082 56 .3335		5t . +735		7594. 06	0678. 01			55 . 1457 66 . 1119 6254		1080 0 . 1630	•
				= = =		30 .0460	84 0.77E			5777 . 4092 7452 . 4866	•	55 .6364		22 . 5990	90 .8210	i de	•			4204 4060	5 .4203
		E DATA	FT. XMRP YMRP ZMRP	BETA	JSELAGE	. 9080 . 0230			5879		3	. 7855		5557. 16	90 .7790	7 0.20E		100447 31 .0593 .1963		.3852	• •
		REFERENCE DATA	0000 SQ.FT 8000 IN. 0680 IN. 0300	-3.999	PBITER FL		1029. 063			.9317				90 1.0191	20 .7290	7000 - 51	•		7530. 89	Pt . 0431	. 0142
			# 474.8000 # 474.8000 # 936.0680	=======================================	SECTION (1) ORBITER FUSELAGE	. 0000	1.4690) & 0	0.0) O F		1.4690	.6520	5150 (6239
			SREF BREF SCALE	ALPHA (1)	SECTIC	X/LB	PH1 500	20.000 40.000	25.00 26.00	90.000 170.000	140.000	151.00	165.000 169.000	174.000	X/LB	PH1 . 630	40.00C	90.000	120.000	150.000	190.000

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	2.9021		.5740	0549	- 0年後								1.9021		.5740	0630	6417
	•		.4970	6502	₽0774	.0023 0106 0568	0717	0770	0794						0.64	0683	0156 0191 0821
(53)	RAY.		.3780	0404	0640	1084	1394	1246	1182				RN/L		.3780	0422	0397 1563 1563
(XE8823)	- 440.89		.3010	0169	1070	1671 2413 4057	1855	1473	1098				440.89		.3010	.0155	2268 3027 4579
	•		.8510	.0003	1152	-,2430 -,2358 -,1850	2993	2763	3045				•		.2510	0100	2946 3075 2567
	598.38		. 2040	. 0256 0426	1133		169 ⁺	1531	2914	1.0460	2576		598.36		.2040	0481	
FUSELAGE	- 39		.1770				6485	.7320		1.0180	2587 2657		• 598		.1770		
YR ORB !	ø		. 1680		- 0609 - 0699	.2017 .4552	. 9225	1.0265	1.0191	.9990	1958	1965	O		0931 .	0540 0540	. 0356 . 0356 . 0945 . 3476
-140A/B/C/R ORB	1.3924	ALE CP	.1580					8		.9600	- 2705 - 2847 - 0015 - 0349	1268 0204 .0250 3010	1.3924	רב כם	.1580		
11-073(0A148)	MACH	IT VARIABLE	.1120	- 0533	0502	1286 1600 3760	.5127		.5517	.9210	2119 1624 .0126 0054		# #	T VARIABLE	.1120	0447	. 0121 . 0121 . 0519 . 0692
	.190 M	DEPENDENT	.0700	.0118	0500	.2278 .3514	****		.4816	.8790		.0179 .0748 .1609 .4142	.279 MACH	DEPENDENT	.0700		1347 1347 2638
AMES	•		.0460	. 0857	2352	3049	.6056		.6063	.8210		. 1264 . 3918 . 4149	± u		.0460	.0657 7470.	.1577 .2084 .2747 .4335
	BETA (2)	NGE	. 0230	.2095 24.18	.3831	.5747 .6344 .7121	.7348		.7269	.7790	0356 0556 .0041 .1497 .2695	.3971 .3971 .4011	BETA (3)	Ä	. 0230	.2036 515:	.4115 .4743 .5331 .6195
		1) OPBITER FUSELAGE	. 0080	.6718		.7938			1.0060	.7290	0154 .0358 .0358	. 0524 . 0443		R FUSELAGE	.0000	.6567	કુમનુ .
	-3.926		.0000	1.4733					1.4733	.6520	0170 040 0567 0679	.0349 .0010 0071	-3.986	1) OPBI TER	.0000	1.4621	
	ALPHA (1)	SECTION (X/LB	PH1 .000 .00	40.000 55.000	70.000 90.000 120.000	150.000	165.000 165.000 169.000	180.000	X/LB	PH1 .000 40.000 70.660 90.000 105.000	120.900 135.000 150.000 165.000 180.000	ALPHA (1)	SECTION (x/LB	PH! .000 20.000	55.000 70.000 120.000

.5740 2.9066 .4970 -.1131 -.1046 ž .3780 -. 1288 -.172 -. 1452 440.18 .3010 -. 1815 -. 1349 -.1561 .2510 -.3080 -.3185 -.2891 -.2051 .2040 -.1705 -. 2669 -.2639 1.0460 599.32 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .5435 .6613 1.0180 -.2610 -.2558 .1770 .1660 .8463 .98÷1 1.0108 .9990 -.2277 .1580 1.0357 .9600 1.3947 ဌ DEPENDENT VARIABLE -.2078 -.1634 -.0153 -.0558 -.1979 -.0583 .0118 .1120 5476 .4563 .9210 = -3.877 MACH .0700 .4856 .8790 -.1644 -.1675 .0889 .0345 -.0695 .0295 .1212 .3478 .4131 -.0946 -.0813 .2281 .2096 .0460 .5712 .6098 .8210 3495 3495 3670 4288 m BETA (1) .0230 .6817 .7308 .7790 -.0462 -.0377 .0041 .1400 BETA SECTION (1) ORBITER FUSELAGE .0080 -.0169 .9905 .7290 -.0220 .0413 .0213 .0230 900. -3.986 -.0115 .0000 .0370 .0214 .0438 .6520 .0217 1.4621 ALPHA (1) NLPHA (2) PHI 140.000 150.000 151.000 162.000 165.000 174.000 X/LH 표

.4970 .3780 .3010 .035 .2040 .1770 .1660 . 1580 DEPENDENT VARIABLE CP .1120 .0700 .0460 . 0230 SECTION (1) ORBITER FUSELAGE .0080 .0000 K/LB

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-.0304 . 0228

-.0303 -.0326 -.0666 -.0275 -.0441 +160.--. B9ta -. 0493 -. 0974 -. 1464 .0032 -.0215 -. 1502 -, 1555 -.0767 -.1564 -.3213 .0148 -.0536 **-**.2242 · 20年9 -.1614 -.1497 -.1147 .0152 -.0532 -.3093 -. 3439 -.0099 -.0566 -.0566 -.0566 -.1355 -.1425 -.1176 . 1973 3537. -.0168 -.0066 -.0049 .1614 .2347 .3049 9742 .0010 .0439 .1592 .2209 .2489 .3666 3842 0799 0877 1565 2956 3327 3351 3865 3555 1899 1890 1890 1890 1890 1890 1877 1877 5437 3664 3664 5355 6477 6982 7317 6831 9118 . 7975 1.4805 20.000 50.000 50.000 70.000 90.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 Ŧ

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

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. • (5	.006	BETA ()	* = =	-3.877							1 76.6	(AEGBES)		
2	SECTION (1) ORBITER FUSELAGE	AGE		DEPEND	DEPENDENT VARIABLE	ABLE CP								
	.0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	0189	.3010	3780	0.63	5760
	.8963	.6066	.5075	.3489	.3704		.9536		2994	3396	2002	1697	. 09fg	
	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
	.0102 0683 0190		0378 0458 .0405 .1225	1015 1186 . 0622 . 0232 0548	1506 0852 0192 0218	2169 2417 0046 0794		2345 2345						
	0182	. 3344 . 3344 . 3205 . 3164	.2191 .3286 .3244 .3244	.0266 .0348 .0469	1148 0278 .1152	1367 0192 .0467 2488	2249 1834							
0	.011 BE	BETA (2)		.183 M	MACH	1.3947	o	20 20 20	599.32	<u> </u>	- 440.18	EW/L	•	2.9065
1.1	110RBITER FUSELAGE	GE		DEPENDENT	NT VARIABLE	BLE CP								
	. 0080	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	55.	.3010	.3780	0.4970	.5740
	. 7982	.3276	1671.	. 0886 	.0166		0081		0032	.007¥	. 0246	.0138		0224
		.5513	2922	. 1330	0393		. 0001		.0232	0175	0304	0011	0342	0191
	. 7684	.5896 .6230 .6550	.3250 .3702 .4660	. 2342 . 3055	. 1370 . 1602 . 2930		1624 2276 4709		1253 0543 0664	2090	1338 2151 3839	1036	0392 0436 0539	
		.6381	.5218	.3322	.3561		.8839		0247	3503	2419		0667	
							9940	737	1990	3209	2061	•. i625	0693	
	8286	.6113	.5111	.3669	.3784	1.0276	.9807		3446	3542	1649	1599	0703	
	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
	. 0232	.0172 8110.	0308	1007	1507	2176 2096		1997	2121					

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243							2.9066		.5740	0351	
PAGE							•		.+970	0312 0521 0535 0570 0976 0976	
	(XE8823)						B RRVL		.3780	0034 0094 1562 1778 2039 1878	
	CXE						= 440.18		.3010	0822 0241 1904 £751 4530 2447 1892	
							Q .		. 25.	0073 0042 2572 2691 3581 3662	
	ш			1.0460			599.32		.2040	0187 0283 0264 .0564 0347 0359 1976 2172 3207	2096 2046 204
 T	FUSELAGE			1.0180			. 55		.1770	. 5332	1994 2096
3 11-073-1	C/R ORB			ე666 .	i	2470 2255	0		. 1660	0146 0125 0000 0528 3649 3649 9465	2738
+B (AMES	-140A/B/C/R		WELE CP	.9600	0584 1004 1460	2200 0791 0305 2880	1.3947	BLE CP	. 1580	. 9739	2144 2000 1038 1319 1799 3207 1640
FA - 0A148	3(0A14B)		INT VARIABLE	.9210	0543 0586 1229	1527 0384 .0504 .1281	MACH .	NT VARIABLE	.1120	9510. 9640. 9665. 9750. 5315. 9736. 9736. 9736.	1459 1008 0876 0949 1670 2207 1019
PRESSURE DATA	AMES 11-073(0A148)	. 183	DEPENDENT	.8790	.0257 1276	.0007 .0745 .1107 .3336	.256	DEPENDENT	.0700	.0900 .0691 .0997 .1514 .1547 .3094 .3741	0982 1016 0004 0611 1621 0755 0007
-	AM	- (S		.8210	.0885 .0960 .1229	. 1968 . 3343 . 3511	3) = 4		.0460	. 1487 . 1521 . 1671 . 2280 . 3903 . 3903 . 4870 . 5150	0353 0165 .0855 .0899 .1300 .0501
TABULATED		BETA (?	AGE.	.7790	1224 .0210 .1534	.2847 .2841 .2911 .3081	BETA (3	AGE	. 0230	8258. 2383. 2383. 3883. 4524. 5676. 5676. 5859	.0050 .0195 .0371 .0358 .1693 .2797 .3040
		110.	1) ORBITER FUSELAGE	. 7290	1016	.0265	. 023	ER FUSELAGE	.0000	.6195 .6195 .0957.	.0119 0666 .0060
FE8 76		ø		.6520	0001 .0310	0001 0072 0162		1) ORB1 TER	. 0000	1.47!! 1.47!!	0241 0118 0118 0142
DATE 10 FE		ALPHA (2)	SECTION (X/LB	PH1 70.000 90.000 105.000	150.000 135.000 150.000 165.000	ALPHA (2)	SECTION C	X/LB	20.000 55.000 70.000 120.000 150.000 151.000 152.000 165.700 165.700 169.000 180.000	1000 1000 1000 1000 1000 1100 1200 1200

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-97310A148) -140A/B/C/R ORB FUSELAGE

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345		2.9033		.5740	.0234	2710.								2.9033		.574G	3.0	. 0023	
PAGE		•		.4970	. 0226	7110.	1120 0919 1024	0589	0609	0578				•		.4970	7610.		0761
	323)	EN/L		.3780	.0530		1023 1472 2020	1745	1882	1920				PRN/L		.3780	.059+	3040.	1736
	(XEBB23)	= 440.42		3010	.0556	.0359	1063 1742 3670	2934	2550	2144				= 440.45		.3010	.0423	8730.	. 4239 - 4239
		٥		5 5	.0249	.0681	1799 1878 1950	3984	3640	3952				۵.		SS.	.0235	. 00 c	2377 2733
		599.62		2040	.0337	. 0125 11.8	.1533 .1084 .0812	2014	17444	3852	1.0460	1562 1662		599.62		.2040	.0283	0003 .0641	.0331
_	FUSELAGE	= 595		0771.				90.00	. 6911		1.0180	1501 1634		* 596		.1770			
11-073-1	ege B	σ		. 1660	98.0	0.758	. 1257 . 2054 . 4808	.8425	.9480	.9364	0666.		. 2808	o		. 1650	.0331	.060. 9604	. 1508 . 3725
(AMES	-140A/B/C/R	1.3946	LE CP	. 1580						T	.9600	1595 1446 1086 1581	2520 1259 0790 2687	1.3946	LE CP	.1580			
1 - 0A148		MACH =	IT VARIABLE	.1120	ţ	. 1092 . 1378	. 1513 . 2364	.2736		.2800	.9210	0799 0442 1126 1255	1832 0850 0021 .0778	MACH =	IT VARIABLE	.1120	.0773	.0798 .0718	.0718
PRESSURE DATA	3 11-073(0A148)	.183 M	DEPENDENT	.0700	.1753	. 25.18 883.4	. 2564 . 2426 . 2643	.2531		.2756	.8790	0317 0372 0542 1253	0358 .0328 .0832 .2729	4.247 M	DEPENDENT	.0700	1798	5.5. 5.6. 5.6.	15.09
	AMES			.0460	.2648	3034	.3556 .3556 .4057	14341		.4159	.8210	.0364 .0348 .0349	.1300 .2470 .3394			. 0460	2598 2598	2. V. V.	.3380 .3380
TABULATED		BETA (2)	19	. 0230	6144		. 5925 . 5999 . 5858	.53+0		1961	.7790	. 0691 . 0760 1982 1212	.2003 .2003 .2083 .2149 .2155	BETA (3)	F.	. 0230	. 4364 . 4757	4634. 4839	.5013 .5063
			R FUSEL	0800.	253		.7336			.7486	.7290	.0599 1800 1224	.0028		R FUSELA	.0080	.9135		.5820
3.76		= 3.958	1) ORBITER FUSELAGE	0000	1.4746					1.4746	.6520	.0286 .0594 0528	0273 0183 0213 0252	3.971	110RBITER FUSELAGE	. 0000	1.4606		
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 000.	€0.000 55.000	70.000 90.000 120.000	1+0.000 150.000	162.000 165.000 169.000	180.000	X/LB	PHI - 000 70.000 90.000	135.000 135.000 155.000 165.000	ALPHA (3)	SECTION (X/LB	РН1 . 000 ?9.090	\$5.000	00.05 00.000 120.000

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	(XE8823)	
TABULATED PRESSURE DATA - DAIH8 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	BETA (3) = 4.247
10		3.971
DATE 10 FEB 73		ALPHA (3) *

PAGE 346

ALPHA (3) +	3.971		BETA (3)	<i>±</i>	.247								į		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
110	ROTE	SECTION (1) ORBITER FUSELAGE	N GE		DEPENDEN	DEPENDENT VARIABLE	PLE CP								•	
ö	.000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	93.0	.3010	.3780	0.4970	.5740	
			.4875	.4071	.2199	. 2249		.7883	5423	1623 2678	4076	.2961	1966	0651		
165 .000 159 .000 174 .000							ļ	÷006.		2590	4072	2320	2092	0725		
-	.*606	.7245	9684.	.4301	.2754	.2686	/669.	9319	·	3654	3831	2512	2014	0857		
ŗ,	.6520	.7290	0677.	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460						
9999	.0205 .0+97 .0556 -	. 1928 . 1928 . 1226	. 0553 . 0865 . 1970 - 0267	.0333 .0538 0282 .0205	0287 0343 0694 1474	0772 0492 1397 1453	: 594 1443 1465 1809		- 1498 - 1629	1607						
9	.0003 - 0152 0256 0338	.0544 .0559	.2180 .2339 .2318 .2318	.265:	0975 0670 0037	2531 1436 0798 .0186	3416 1802 1452 3090	3569 3569								
8 T	7.933		BETA (1)	-3.5	963 MACH	# &	1.3941	0	- 599.51		•	440.65	PRV/L	•	2.9093	
1.08	: ORB11ER	FUSELAGE	JE SE	-	DEPENDENT	T VARIABLE	LE CP									
8.	0000	.0083	.0230	.0460	.0700	.1120	. 1580	. 1560	0771.	.2040	.2510	.3010	.3780	0.4970	5740	
984.1	 m	-D#0.	.5497	3704	.2533	1559		1001.		. 0882 - 181	. 0839	.0676	.0954	7573.	.0751	
			7046	1500 t	3338	. 2105 2355		1672		1160	. 1272	.1097	. 1066	8-72.	7160.	
		.8193	.6864 .6553 .5731	. 4503 . 4324 . 3828	.3398 .3144 .2602	. 2359 . 2155 . 2236		. 1947 . 5080			.1040	0308 0570 3166	0301	1019 1359 2364		
			¥181.	.3267	. 2089	3405.		. 8854			4352	- 38.+	2177	-, ,252		
							.8086	.9137	7167	- 2877 -	.4020	- 325	- 2045	0901		

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		TABULATED	۵.	PRESSURE DATA	- 0A14	B C AMES	(AMES 11-07:-1	<u> </u>					PAGE	'
7.933 BETA	¥.	=		AMES 11-073(0A143) -3.869		-140A/B/C/R ORB FUSELAGE	7.R ORB -	FUSELAGE			(XE8823)	823)		
11 ORBITER FUSELAGE	Ř			DEPENDENT	NT VARIABLE	BLE CP								
. 0800	9.	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	5000	.3010	.3780	3764.	5740
.6190	M	3587	.3151	3771.	. 18%		.8622		3821	4202	2724	2160	0586	
7. 0657.	Ë	9677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
	5.5.5.				0176 .0117 1390 1992		-3157	1012	-, 1143 -, 1259					
1751 .0789 .0642 0290 .0602 .0730 0275 .1330	979 966 973 973 973 973	00000	.0631 .1223 .1194 .3185	0642 0516 .0307	2012 1364 0020 -1296	2442 1266 0957 2815	- 2963							
7.908 BETA (_	2		.178 HA	HACH	1.39+1	0	± 599	599.51	•	**0.65	S FBV/L	•	2.9093
1) ORBITER FUSELAGE	y		~	DEPENDENT	IT VARIABLE	ALE CP								
.0080 .0230	. 0230		.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	8. 20.	.3010	3780	0764·	57+0
1.0430 .5582	.5582 .5718		3780	2707	1620		1139		4760.	7+70.	. 0739	. 1040	.0839	.0803
29.3. 6.63	59.78. 63.63		3986	8500 8500 8500 8500 8500 8500 8500 8500	3571		1467		.0659	. 1000	.0998	1650.	.0561	1670.
.6887 .5883. 1508.	82.02 87.02 17.02		33.0	2337 2337 8: 18	1834 1834		1212 1366 1634			1487 1626 1836	0832 1236 3565	0920 1376 3315	1542 1667 1747	
.4303	.4303	••	.3350	. 1824	.1938		.7935	1000		4357	3436	1658	0721	
						á	.8832	6829	2839	4011	29v7	1993		
.6085 .3762	376	•	. 3293	. 1940	.19I.		.8823		- 1714	4333		2086	C444	
0677. 0657.	E.	•	.8210	.8790	.9210	.9600	9656	1.0183	1.0460					
. 1240 . 1463 . 1595	3.00	ដូច	.1131	. 0386	0079	0903 0848		0938	1097					

DATE 10 FEB 76

790 . 82 296 103 1411 . 045	AMES (2) = 77908210 26951035 27961035 2797 2797 2797 2797 2797 2797 2797 279	7790 . 829 2685 - 1103 2791 - 2685 2795 - 1103 271 - 0913	# 98 L. 199	.178 .178 DEPENDE .8790 .1549 .1955 .2281		310A148) DNT VARI .9810163721412127		-140A/B/C/R ORB FUSELAGE BLE CP -360'ú .9990 1.0180 1499 2733127 27793282	FUSELAG	3. 1.0460		ë S	(XE8823)	
.04060428 .0893 .3685 .0321 .03050202 .1194 .4136		0914 . 1439 0883 . 3685 0885 . 4136	. 1439 . 3685 . 4136	1 0 0 0 0 0 0 0	2000	1271 1271 0584 0138	1737 196 2865							
* 7.872 BETA (3) * 4.245	BETA (3) = 4. USELAGE	(3) = 4.	<i>;</i>	24.5	2	MACH = 1.	1.3941	3	ii i	599.51	۵.	- 140.63	5 RW/L	5
0000 . 0080 . 0230 . 0000 .	. 0230 . 0463	0230 .0463	0463	.07	90	•		. 1660	0771.	2340	8	401	Ş	
.4307 1.0313 5463 3759 2319 .528 3505 2319	3 .5463 .3759 .5288 .3505	.3759		. 265 . 231	00	1394		01100.		. 0826 8780	9,70.	.0706	9701.	
. 3385 . 2836 2450	. 3385 . 2836 2450	. 3385 . 2836 2450		, 200 100 100 100 100 100 100 100 100 100		.0760		0599		.0286	. 0558	0689	. 0862	.0392
775 - 5258 - 775 - 5265 - 5261 - 5261 - 5261 - 5261 - 5262 - 6244 - 5266	.4716 .2421 .4428 .2696 .	. 2696 . 2696	• • •	. 1 / 15 . 154 1 . 1596		.0831 .0665 .1334		.0876 .3818		.0988	1850 2113 2580	1347 1772 3984	1483 1888 2275	1961. 1981.
3922 . 3196 . 1425	.3196	.3196		. 1485		.1583		.7416	.512t	0924 2826	4452	3336	- 1861 -	.0585
								.852:	.5857	2969	6484	2643	- 6140 -	.6576
. 5958	. 3750 . 3438 .	. 3438	•	. 1963		1945		.8942		4060	4155	2736	2126 -	15/0.
o∋≓6 .7≓96 .8210 .8790	.7790 .8210	.8210		.8790		.9210	.9600	. 9990	1.0180	1.0460				
. 0923 . 1235 . 1348 . 1084 . 0417 . 1031 . 1625 . 1267 . 0395 . 1241 1733 - 12485 0332 1733 - 1485 0008 - 1733 - 1485 0008 - 1733 0008 0008	.1348 .1084 .1625 .1267 -26460377 -14850332	.1348 .1084 .1625 .1267 .26460377 .14850332		. 1451 . 1451 . 1451 . 175			0936 0922 1974 2006		1320	1542				
.03660624 .071505361281 .1417 .22000757 .03150211 .1616 .30100453	.07150596 .1417 .2200 .1616 .3010	150596 17 .2200 16 .3010	.0536 .2200 .3010	.0757		2731 1722 1287	3673 2124 1864	3345 3845						

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DATE 10 FEB	37 8:		TABULAT	ED PRESS	TABULATED PRESSURE DATA	- 0A148	_	AMES 11-073-1	•					PAGE
				AMES	AMES 11-073(0A148)		-140A/B/C/R ORB FUSELAGE	/R ORB F	USELAGE			(XEBB\$3)	(53)	
ALPHA (4)	•	7.872 81	BETA (3)		4.245									
SECTION (1108911	SECTION (110RBITER FUSELAGE	AGE		DEPENDENT VARIABLE	T VARIAE	ALE CP							
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	ეგგნ.	1.0180	1.0460				
PH1 165.000 180.000	0384 0496	0146	.1096	¥665.	.1787	0646	3129							
ALPHA (5)	. 11.93		BETA (1.)		-3.857 MA	MACH .	1.3942	o	* 599	599.95	.	• 440.89	RN/L	તાં •
SECTION	(110RBIT	11 ORBITER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	RE CP							
X/LB	0000	. 0060	. 0230	.0460	.0700	.1120	985!	.1660	.1770	.2040	.25	.3010	.3780	£970
PH1 .000	1.3856	1.1480	.6732	488 4.	.3517			. 1813		. 1635	.1385	.1232	. 1432	.1456
20.000 43.000			.7169 .787	. 5597 . 550 5	.4207	064. 2929.		.2000 .2463		10.0	1521.	. 17 <u>9</u> 7	.1757	. 1408
55.000 70.000		!	.7445	.5137	. 3361	7. 8328 8328		. 1874 4781			0754	9110	0203	1014
90.000 120.000		. 7643	.6150 .4875	680±.	.1738	. 1562		. 1577 1754.		1819	1252	3062	- 410	490B
140.000 150.000			.3439	.2139	. 1359	. 1283		.8732		0761	4763	4358	2635	1655
151.000 162.030 165.003								ų V	.6331	3364	4393	3677	2217	1083
155.000 174.000	3505	4760	8	9.45 6.45	.1107	1170	.6731	938		4128	4427	2977	2113	0744
x/Li	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460				
1.	586	500		1843	.1235	.0788	0214		0520	0748				
40.000	2243	•		1973	1118	. 1038	0242 0917		0924	1219				
96.000	3	` ;	3120	0945 000	2080	1960	0833 1682							
110.600	1965	2038	0427	.0590	1372	2280	2295							
135.600	1040	'	0448 1552	.1304	1038	1419	1677 2148							
165.00	- 0899 - 6899	•	0950	25.27	6412.	. 0220	3094							
20.00	2500		1	,										

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350		2.9149		5740	. 1943	.1512											2.9149		.5740	. 1457	. 1225	
PAGE		RN/L =		0.697	.1589	. 1306	1687 1963 2513	0924	0561	0443									0764.	. : 462	.1016	2336 2443 1500
	(XE8823)			3780	<u> </u>	.1613	0882 1295 4327	2003	1917	2019							RR/L		.3780	. 1502	.1303	1482 1828 3877
	CXE	e8.0+h =		3010	. 1246	.1385	0702 0977 3493	3982	3199	2750							* 440.89		.3010	.1.86	.0738	1211 1475 3825
		۵		25.0		.1290	1174	4678	4308	4607			• •				<u>.</u>		.8510	.1332	. 0625	1516 1915 2409
	4.4	599.92		.2040	. 1655	1163	. 1648 1204	. 2017	3167	4387	1.0460	•	0714				599.92		.2040	.1513	0539	.0193 .0985 .0403
<u>-</u>	FU.:LAGE	* 50		0771.				8008	7. 7.		1.0180		0369				n 599		0771.			
AMES 11-073-1	C/R ORB	ø		. 1660	.1863	986	.1172 .1167 .3973	.7331	. 8055	.8199	.9990			3252			o		. 1660	. 1922	39	.0567 .0634 .3575
-	-140A/B/C/R ORB	1.3942	BLE CP	. 1580					į	ACS/.	0096	i	0264 0247 1337 2031	3126	2111 1650 3061		1.3942	LE CP	.1580			
A - 0A148	11-073(04148)	MACH =	NT VARIABLE	.1120	. 2420	. 1458	.1510	.1266		. 1255	.9210		. 0932 . 0932 2745 7705	2452			MACH =	T VARIABLE	.1120	6806	.0508	.0476 .0475 .0844
PRESSURE DATA	S 11-073	. 183 M	DEPENDENT	.0700	.3651	.3696	.2476 .2113 .1480	. 1217		.1183	.8790		. 1313 . 1219 - 2559 - 3587	1380	0926 0294 2270		4.258 MA	DEPENDENT	.070	3540	3000	.1510 .1356 .1071
	AMES	2) =		.0460	.4939	.4856	.3411 .3063 .2493	. 2336		. 2355	.8210	ţ	. 2184 2184 1135	-		.3859	tt		. 0460	+85+ +487+	.4114	.2136 .136 .1987
TABULATED		BETA (2	AGE	. 0230	.6763 .6842	. 7002 . 6288	.5634 .5214 .4302	. 3228		.2631	.7790	002.0	. 3994 - 3994 - 3080 - 3080	.0176	. 6050 1104 0595	0367	BETA (3)	FÅ.	.0230	.6652 6+06	. 5970 . 5054	.4481 .4259 .3653
		11.869 E	ER FUSELAGE	. 0080	1.1523		.6334			.4632	.7290	1200	2395 2395	1245		1335	.865 BE	R FUSELAGE	.0080	1.1373		.4887
B 76			1) ORB! TER	.0000	1.3922					1.3922	.6520	1711	. 2054 - 2309 - 1440	1038	0708 0464	0385	8:11	1 YORBITER	. 0000	1.3827		
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PHI .000 20.000	55.000	90.000 120.000 140.000	150.000	162.000 165.000 169.000 174.000	180.000	X/LB	PHI	70.000 70.000 90.000 105.000	120.000		000	ALPHA (5)	SECTION (X/LB		40.000 25.000	75.000 90.000 120.000

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

57.0 .2350 .5740 B .4970 -.1085 -.1339 -.4190 . 2239 -. 3212 0764. .2287 -. 1198 -.0538 -.0747 -. 065<u>r</u> -.0180 -.0610 -.5158 .3780 .3780 2123 .2453 - 1256 - 1256 -.3142 -.1776 -. 1999 -.2092 -.4051 .3010 .3010 .2216 -.0199 -.0261 -.3002 -.4837 1914 -.2852 -. 3599 -.2942 -.0718 -.0933 -.1270 .85 .2300 +174.--.4502 .2097 -.5148 -.4691 . 0185 -.4357 -.3270 -.0673 2040 24.19 21.25 .2040 1.0460 -. 424G 599.51 -.0568 -.1029 .1770 .1770 .4820 5553 1.0180 .9990 . 1660 2691 2096 3096 1783 1783 1553 .6545 .7605 -.3599 . 1660 .8192 .9600 -.0406 -.0363 -.2313 -.2721 -.3964 1.3942 . 1580 .6689 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 3405 3807 2344 2344 1563 0787 .0596 .0596 .3081 .1120 .1140 .9210 -3.836 MACH .0700 .0700 .0837 . 1235 .1259 .1134 .2405 .3089 .4019 .8790 .1448 5979 6376 6376 5337 4425 3711 .2286 .8210 .1898 .2110 .2224 .1441 3648 .0460 1096 .0460 4400 . 0230 2895 7957 8337 8633 7577 7577 6473 4631 2431 .0230 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE 1.2439 .0000 .2065 -.0429 -.0995 -.0588 15.857 11.865 .0000 1.3153 -.0783 .0000 .1615 .1727 .2193 .1187 ALPHA (5) ALPHA (6) PHI 140.000 150.000 151.000 162.000 165.000 174.000 180.000 K/L8

(XE8823)

AMES 11-073(0A148) -1403/B/C/R ORB FUSELAGE

-3.836

BETA (1) =

ALPHA (6) = 15.857

DATE 10 FEB 76

SECTION (1) ORBITER FUSELAGE	1100011	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE UP	BLE UP								
X/LB	. 0000	. 0080	. 0230	. 0460	.0700	.1120	. 1580	.1660	.1770	.2040	93.0	.3010	.3780	.wg70	.5740
Ph1 180.003	1.3153	.3133	.1500	.1383	.0488	. 0614		.7227		4429	4616	3082	1964	0706	
X/LB	.6520	. 7290	.7795	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PHI - 000 -	.3760 .3758 6550 1425	.2997 4438 3111	. 3693 . 3693 - 5232 - 3766	.2972 .3111 .4619 1968	.2376 .2147 452 2672	. 1552 . 1584 3828 3530	.0234 .0244 1753 2479 3626	į	0062 0654	0262 1151					
135.000 135.000 150.000 165.000	2320 2841 1184 0821	3198	1127 0403 2012 2127	.0902 .0344 .1521 .4021	1954 2058 3756 1650	2797 1843 2802 0529	2822 2:71 3:380 3:71	-, 3356 -, 3356							
ALPHA (6)	= 15.871		BETA (2)		.184 MA	MACH =	1.3942	ø	= 599	599.51	• •	. 440.65	S RRVL	•	2.9096
SECTION (1.108/817	1) ORBITER FUSELAGE	AGE		DEPENDEN	DEPENDENT VARIABLE CP	ALE CP								
X/LB	.0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
FH. 600.	1.3225	1.2497	.8000	.6027	. 4691			.2670		2445	.2166	1961	2175	. 2299	.2334
£0.050			. 7628 . 7528	1.05.2 1.	. 4366 4366	3120		ក្រុស មិនជំ		. 155. 555. 565.	. 1626	.1765	.2049	.2049	.2270
20.000 120.000		.5651	. 5269 . 4692 . 3477	3275 2728 1720	. 2280 . 1820 . 0581	. 0883 . 0559		.0983 .0923 .3148		.0535 .0535 .1447	1127 1394 1779	0809 0821 3354	0850 1180 5261	1956 1972 3228	
150.000			.2250	.1312	.0567	.0656		.6315	į	. 1842 1842	4968	6644	2431	1058	
165.000 165.000							\$.7345	988 989	3500	4541	3376	1875	0665	
180.000	1.3225	.2847	. 1605	.1585	. 0636	.0642	. 5396	.7591		4637	4828	2846	1759	0568	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 .000 40 .000	.2928 .2928	.3018	3549	.3092	.2412 .2203	1581.	.0201		0004	0275 0574					

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE BETA (2) 15.871 ALPHA (6)

.4970 .2258 1744 N N .3780 -.1545 -.1738 -.4887 .2182 . 1692 440.65 .3010 -.1286 -.1336 -.3682 .1910 .1217 .0716 -.1424 -.1723 -.2268 .83 .2103 .2040 599.51 .1730 1 6190 ეგგნ. -.3951 .1660 2319 2319 1620 0053 0365 2969 .9600 -,2220 -,3022 -,4122 -.3278 -.2657 -.3415 4.289 MACH " 1.3942 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.442p -.3641 -.4449 .9210 .1120 2985 2422 0231 0658 0364 -.5038 -.3744 -.4070 -.1955 -.1167 -.2824 -.2435 .8796 .0700 -.4667 -.2578 -.0818 .8210 .0102 .0015 .2530 .4676 .0460 5995 5522 4819 3020 3020 2223 1854 BETA (3) -.5471 -.4049 -.2909 ..0910 .0065 -.1909 -.1107 .7790 . 0230 7897 7532 6564 6564 4949 4089 3850 3049 SECTION (1) ORBITER FUSELAGE 110RBITER FUSELAGE . 7253 -.4896 -.1656 -.1752 -.0588 .0080 1.2392 4484. = 15.861 .6520 -.3441 -. 1230 1.3173 .0000 ALPHA (6) PH1
73.000
90.000
1105.000
125.000
135.000
156.000 20 000 55 000 70 000 70 000 120 000 151 000 165 000 174 000 SECT ION X/LB X/LB 풀

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7155. 2044

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-. 3858

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-.048B

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.7045

.5917

. 055£

.0749

1607

.1575

.2691

5334

5974

0504

.1327

2060

-.0676

-. 1985

-. 3040

1.4546 -.4561 1.0460 1.0180 0666 7569 .9600 .9210 .8790 .8210 130

.0148 .0177 .2311 .3411 .1509 .1468 .3727 .3746 .2273 .2145 -.4755 -.4026 2924 3059 3059 4321 734 3860 1833 1874 1874 3132 -.4571 ..1374 -. 1346 25.55 25.55 25.55 25.55 25.55 40.000 70.000 90.000 105.000 110.000 120.000 Ē

DATE 10 FEB 75

1.3173

.7290

6520

-.2833 -.2638 -.1334 -.1808 -.1833 -.0282

.3909 .2920

-. 0865

-.0423 -.1749 -.1162

-. 0821 -. 0864 .0010

-. 0775

AMES 11-073(0A148) -140A/8/C/R ORB FUSELAGE 4.289 BETA (3) = ALPHA (6) = 15.861

DATE 10 FEB 76

SECTION (1) ORB; TER FUSELAGE

DEPENDENT VARIABLE CP

.9990 1.0180 1.0460 .9210 .9600 .8790 .8210 .7290 .77**9**0 .6520 X/LB

.2794 -.0765 -.3436 .4237 -.0564 -.1065 -.1058 PH1 165.000 190.000

(XE8823)

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-	FIRE ARE
TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/R/R/R DRS FIRET ARE
DATE 10 FEB 76	

PAGE 358

			_		.																		
	3.0086		.5740															3.0088		.5740	0695	0397	
	٠ •		.¥970		0908			0550	0591	0605	0676									.4970	0999	0873	0204 0187 0539
(XE8854)	I RN/L		.3780		0723		1235	1893	1623	1671	1652							FBN/L		.3780	- 0688	0778	1393 1272 2609
CXE	. 551.11		.3010		0570		3104	•	2 52	1690	1479							551.11		.3010	0523	1075	2472 3715 5529
	ء م	÷	.2510	,	0053	•	3190	•	3647	3459	-,4084							•		.2510	0122	0957	3862 3917 3458
	599.78		.2040		0003 0336	0198	0851	1633	2803	2706	3421	1.0460	3352	2646				.78		.2040	0108	0897	
FUSELAGE	. 59		.1770						.5638			1.0180		3254			•	599.78		.1770	•	•	•••
ORa	0		.1660		0089 0233 0583	.0576	1637	100) ica:	4840.	.940S	0666.			2619			o		.1660	0385	0257	.0857 .0857
-140A/B/C/R	1.2469	BLE CP	.1580							; ;	- 040 - 040	.9600	3177	3523 0273 0416	1580	0585	•	1.2469	וב כם	. 1580			
11-073(0A148)	MACH .	NT VARIABLE	.1120		0294	.0668	.2266		1/00:		.6118	.9210	2512	2015 .0023 0309	1236	65.5. 68.45.	5	MACH	IT VARIABLE	.1120	- 039B	0337	. 0892 . 1259 . 3400
5 11-073	н 061.	DEPENDENT	.0700			1556	7692 1002 1002 1002		1061		.5378	.8790	1976	2000 .1017 .0508	0568		5	AM TTS	DEPENDENT	.0700	. 0268		. 1820 . 1820 . 2716
AM	•		0460			. 2155 2564	3668	2 2	5010.		.6200	.8210	1200	1157 .2931 .2608 .2528	.1356	¥07.	.6150	<i>3</i>		.0460	.0463	. 0595	. 2586 . 2586 . 4243
	BETA (2)	AGE	. 0230		. 3550 . 3550	. 5556 5556	.6214	1			4.	.7790		0690 .1173 .2213		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	.4856	BETA (3)	J _O	. 0230	. 1993	.3006	.4559 .5173 .6113
		DORBITER FUSELAGE	.0080		9		.7789				1866.	.7290	0241	0119	.1015	5751.	.1359		R FUSELAGE	.0080	.6215		.6382
	-3.977		0000	1							1.404.1	.6520	.0022	9750 7070. 9770.	.0683	.0317	. 024	= -3.980	1109B17ER	.0000	1.3978		
	ALPHA (1.	SECTION :	X/LB	E E	20.000 40.000	55.000 70.000	90.000	150.000	151.000	165.000 169.000	180.000	X/LB	PH1 . 000	40.000 70.000 90.000 105.000	110.000 120.000	150.000	180.000	ALPHA (!)	SECTION:	אירם אירם	PH! .000 20.000	40.030 55.000	76.000 96.000 120.000

ATED PRESSURE DATA - DAIHB (AMES 11-073-1) AMES 11-073(DAIHB) -140A/B/C/R ORB FUSELAGE (XERB24)		DEPENDENT VARIABLE CP	0460 .0700 .1120 .1580 .1660 .1710 .2040 .3510 .3010 .0711. 0700. 0490	. 5696 . 4426 . 5103 . 7673 3301 3952 1976 2239 0877	8¥06. 7756. 0538. 7158. 1818.	0910 1 0810 1 0866 0096 0126 0848 0128	1147195624723165 1020200420313241 .2937 .005004020737 .2723 .010609170862 .1881061718431951	3032 0452151225312963 4553043411201529 4579 .065805951271 2838 .03553513	1) = -3.875 MACH = 1.2468 Q = 599.96 P = 551.34 P:VL = 3.0225	DEPENDENT VARIABLE CP	0460 .0700 .1120 .1580 .1660 .1771 .2040 .3010 .3180 .4970 .5740	. 0823 . 0699 . 0018	. 1387 . 0527	.431 .3227 .2744 .2280 .12542567100608260354 .4759 .3403 .3210 .2749 .07052374199812700363 .5433 .4010 .4704 .5068 .08291847412216330832		.32264014301418580870
g 7		VARIABLE	.1580		0036.	. 9600 .	3165 3241 0737 0862	2631 1529 1271 3513	* 1.2468		.1580				•	
DATA -	4.277		.0700	9244.	.5217	. 8790	1956 2004 . 0850 . 0106 0617	1512 0434 0658 2838	MACH		.0700	.0823	.1387	.3403 .4010	. 4041	
		FUSELAGE	. 0230	.6816 .569	.7388 .61	58. 0677.	0560 0498 1401 2216	3193		FUSEL AGE	.0230	.3020		.6814 .7196 .7320		
10 FEB 76	(1) = -3.980	SECTION (1) ORBITER FUS	0800. 0000.	PHI 140.000 150.000	65.000 69.000 74.000 80.000 1.3978 .9817	.6520 .7290	PH1 .00001740196 .0.000125 .70.000 .00160148 .00.000 .0017 .0434	150.000 .0553 .1232 135.000 .0164 .1347 150.000 .0060 180.000 .0051 .1152	ALPHA (2) = .038	SECTION (1) ORBITER FUSE	. 0000	000 1.4155 .7587	00:	70.000 90.000 120.000 140.000	0.0	000: 000:

ATED PRESSURE DATA
TABULA
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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)
AMES 11-073(0A148) -140A/8/C/R OR8 FUSELAGE

-3.875

BETA (1) .

.038

ALPHA (2) =

PAGE 358 (XE8824)

	37.0							3.0225		.5740)	0520	0283									
	.4970	0799						•		.4970	•	0562	0659	0370	0462	0625	05¥6	į	d2k4	0538		
	.3780	2107						FN/L		.3780	 	0294	0282		519		1808	5	1993	2045		
	.3010	2463						551.34		3010		0023	0477				3135	ě	. cuto.	2145		
	.8510	4302						•		018%		.0346	0441			2693	4614	į		4651		
	.2040	4257	1.0460	2612 2236				599.96		.2040		0.150	0283	. 0656	. 1710	-,0219		000	. 200	4597	1.0460	2696 2309
	.1770		1.0180	2612				* 599		.1770								.6192		·	0.010.1	25702750 -
	.1660	.868¥	0666.		2373			ø		. 1660		9410.	0440	1728	.2066	18 3.	.8236		.9190	.9037	0666	••
BLE CP	. 1580		.9600	2528 2914 0179 0766	1255	0450 0094 3050		1.2468	LE CP	. 1580										9 6 6	0096	2527
DEPENDENT VARIABLE	.1120	.5142	.9210	1805 1059 0253 0511 1190	1253	0343 . 0669 . 1647		MACH #	DEPENDENT VARIABLE	.1120		1110	04.00 0.00	1780	. 2276	C	. 4953			. 5263	.9210	1756
DEPENDE	.0700	. 3965	.8790	1176 1349 .0757 .0461	0485	0212 .0524 .3669		.180 M	DEPENDEN	.0700		.0997	.1163	. 2257	. 2328	SEAS .	.3733			. 4026	.8790	1219
	.0460	. 4989	.8210	0490 0466 .1717 .1492	.2123	.3727	.3917			.0460		551	87.61	7 TU	[] [] []		int.			.5054	.8210	0417
AGE	. 0230	.608	.err.	.0074 0146 1729 0473	.3338	35.55 1775. 1785.	. 3552	BETA (2)	ISE	. 0230		3058	87.44.	. 572E	9 000	D 0	. 6389			.6177	3677.	.0185
ER FUSEL	.0080	.88	. 7290	.0145 1054 0413	0149	.0417	.1003	38 Z+O	R FUSELA	.0080		.7640		((0000					.8693	.7290	.0268
1) ORBITER FUSELAGE	.0000	1.4155	.6520	.0176 0186 .0062	0016		.0003		11CPBITE	. 0000		1.4:97								:61a::	. 6520	.019. .0057
SECTION	X/LB	PH1 180.000	X/LB	PH1 - 000 -	120.000	150.000	180.000	ALPHA (2)	SECTION (1) CRBITER FUSELAGE	X/LB	<u>.</u>	000 10c	000.07	70,000	300 ON 0	140.083	150,000 181,000	(100) (100) (100) (100)	169.00¢	30000000000000000000000000000000000000	X//B	745 .000 .000

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

(XE8824) 學.155 1.0180 1.0460 599.96 AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE 9880 -.2927 .9600 -.0729 -.1166 -.1882 . . 2468 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0692 -.0883 -.1582 .9210 -.1821 -.0893 -.0175 MACH . 0232 -. 0211 -. 0929 -.0803 .0056 .0651 .2917 .8790 £.73 .8210 . 1587 . 1265 . 1207 1769 3782 3882 5120 -. 1200 .0785 .2046 .7790 .3263 .3263 .3452 .3635 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .7290 -.1125 -.0446 .0312 .0776 .0313 . O+2 .6520 -.002e .0246 .0363 .028* .0750. .0163 ALPHA (2) NLPHA (2) PH1 70.000 90.000 110.000 110.000 125.000 150.000 165.000 X/LB X/LB

.4970 -.0500 -.0438 -.0510 -.0799 -. 0E36 -.0635 -.0680 -.07e Ž 3780 -.1756 ..0363 -.029+ -.2268 -.2026 -.2239 .3010 .0018 -. 3282 -. 5320 -.0457 -.2709 -.2263 -.2401 .8310 .0189 -.0193 -.3517 -.3615 -.3572 -.4370 -.4747 -.4155 .2040 -.3345 -.4382 1.0460 .170 .4499 .5413 1.0180 .0009 .0102 .0507 .0927 .1166 .1379 .1660 .8715 9990 14.1 6068 .1580 .9389 .9600 -.0028 .0130 .0516 .0873 .1175 . 1120 .4328 .5033 .9210 .0700 .0784 .0784 .1000 .1443 .1422 .1410 .3286 .8790 .3985 .0460 1593 1440 1564 1564 1969 2578 2578 4708 5054 .8210 . 0230 3032 2984 3790 4351 4709 5091 5603 5887 .6213 .7796 .7493 .008, 6099 67.49 .7290 .0000 1.4050 .4050 .6520 20.000 55.000 70.000 120.000 1120.000 1151.000 1152.000 1155.000 1155.000 1155.000 1155.000 1155.000 £

.5740

-.0626

-. 2630 -. 2644 -.3395 - 2529 - 2491 - 1294 - 1616 - 2283 -.1752 -.1316 -.1112 -.1306 -.2875 -.1673 -.1010 -. 1201 -. 1278 -. 0034 -. 0697 -. 1671 -.0747 -.0241 -.0467 -.0311 .1637 .1186 3363 .0112 .0197 .0795 .0705 25.55 55.55 -. 1174 -. 0541 5 .0368 .0039 .0122 .0123 0369 0513

74.20.

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70.000 70.000 90.000 105.000 110.000 125.000

- .254 - .24 16

(XE882+)

TABULATED PRESSURE DATA - DAIM8 (AMES 11-073-1)

AMES 11-073(0A148) -140A 3/C/R ORB FUSELAGE

DEPENDENT VARIABLE CP

9

BETA

. O. 4

4. PHA (2)

SECTION (1: ORBITER FUSELAGE

RESSURE DATA - 04148 (AMES 11-073-1 AMES 11-073(04148) -1404/B/C/R ORB F .182 MACH * 1.2475 0
OEPENDENT
0511. 0070.
•
•
.2361 . 1620 .2235 . 1823 .2394 . 3103
2536 .3960
2856 .4239
.8790 .9210
03921039 05500636 06031401 10081506 20412156
11282587 04281499 .02530690 .2287 .0051
MACH
DEPENDENT VARIABLE
.0700 .1120
• •
1589 .0812 1482 .0823 1650 .2258

二二年 李子子

3

BETA

3.915

ALPHA (3)

(XEBB24)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

5740 5740 9489 5712 L4970 -.0520 -. 0553 - 1458 - 1869 - 2013 -.0669 Great. . 3502 . 2525 -.0813 -. 1143 ž .3780 -.2422 -.2169 -.2265 -.0545 -.1264 -.4269 3780 .0931 1174 -.2143 -. 2266 551.11 .3010 -.2842 -.328! -.271 .3010 .0858 -.0605 -.0975 -.4001 -.4056 .0874 +114.--.5055 -.4597 -.5201 -.1951 35.0 -.5127 . 1008 -.5523 1294 -.2637 -.3819 .2040 -.4905 1.0460 -.2158 -.2115 .2040 .0984 .0905 .1191 .1827 .1982 .1982 .1655 .108 -.4157 600.25 .1770 -.2049 -.2149 .5171 1.0180 .1770 .6835 6819 . 1660 .7237 .8345 .9990 .8508 . 1660 .1121 .1773 .2300 .2466 .2912 .24343 8525 .8785 J .6359 -.1958 -.1842 -.1573 -.2141 .9600 . 1580 -.4239 -.2574 -.2197 -.3323 1.2474 . 1580 DEPENDENT VARIABLE CP .8920 DEPENDENT VARIABLE CP .1120 -. 0995 -. 1678 -. 1787 -. 25332 .400B .9210 ₩. .1120 . 2205 . 2339 . 2393 . 2359 . 2497 .2319 MACH .0700 .2:30 .2706 -.1803 .8790 -.0367 -.0520 -.0735 -.1307 .0700 1911 2523 2453 3174 3617 3058 3058 2567 -3.667 .0460 . 3923 .8210 .0387 .0572 .0289 .0135 -.0218 .2395 .2383 1117 3251 .0463 3369 . 0230 .4936 .5072 .7790 .1033 -.2073 -.0104 .1690 .2476 .2733 .2661 . 3230 4517 SECTION (1) ORBITER FUSELAGE SECTION (110991TEM FUSELAGE .0080 .7139 .7290 .0786 -.1950 -.1373 . 0552 .1025 .0330 .0161 . - .0127 1.03:8 7.877 .0000 1.3962 .6520 3003. . 3672 ALPHA (1) PHI 11-0.000 150.000 151.000 162.000 165.000 169.000 174.000 .000 70.000 70.000 70.000 104.000 116.000 126.000 156.000 166.000 Ŧ X/LB A/LB g E

[]

5740 0,64 -.0615 3780 -. 3228 .3010 - 3209 55. -.5093 .2040 -.5110 -.1778 1.0460 AMES 11-073(GA148) -140A/B/C/R ORB FUSELAGE 0771. -. 1523 1.0180 .9990 . 1660 .7913 -.2522 -. 1413 -. 1422 -. 0321 -. 1356 -. 2281 .9600 DEPENDENT VARIABLE CP .1120 .2345 .9210 -.0304 .0068 -.1324 -.1746 .0700 -.1163 -.0875 .0155 .1728 .8790 -3.867 .0460 .3188 .8210 BETA (11 . BETA (2) .0230 . 1126 . 0957 . 0897 . 1850 .3671 .7790 SECTION 1 110RBITER FUSELAGE .080 .7290 .6055 . 1393 -. 25574 -. 1964 -.1643 -.0191 -.0004 7.877 -.0716 -.0395 -.0371 1.3572 .0000 .6520 .1090 .357 .1365 ¥2. PHA C 40 LPHA : 4) 70.000 90.000 100.000 110.000 1120.000 1130.000 1150.000 1150.000 1150.000 PHI 180.000 K/LB X/LB Ŧ

9 954 8 ..1987 ...1590 0764. .0753 .0392 . 93X -.0675 Leg. 3780 9160 9580 -. 205. -.2191 -. 1926 32::3 -.3309 .3010 .1065 .0750 -. 4225 -.2977 .03 . 1093 -.2189 -.2473 -.2666 .1181 -.5538 -.4812 -.5504 .2040 -.5450 -.4095 686.23 170 5755. . 1660 .7665 .8336 7618 a .:78 MACH = 1.2474 . 1580 .0653 DEPENDENT VARIABLE CP . 1120 1468 1903 1569 1578 1522 1940 2433 .2183 .0700 . 1825 8.179 8.777 8.777 8.78 8.78 8.78 8.78 1.94 1.94 .1551 .0460 3896 3774 3774 3387 3306 3419 3364 3187 . 0230 3869 4307 SFCTION (1) OPBITER FUSELACE .0080 .6737 1.0060 5916 1.3714 .0000 .3714 20.000 20.000 20.000 30.000 30.000 1120.000 1150.000 1150.000 1150.000 1150.000 1150.000 1150.000 1150.000 1150.000 Ē

1.0460

1.0180

0666.

.9600

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.8790

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.1455

. 1188

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(XE8824)

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-140A/B/C/R ORB FUSELAGE	
AMES 11-073(0A148)	.178
	(G) =
	BETA
	7.882

ALPHA (4) =

					3.0132		5740	.0391	.025¥							
					•		.4970	.0463	. 3062	2125 1581 0956	0532	0499	0364			
					F8/1-		.3780	6060.	.0569	1895 2388 2308	1952	2294	2365			
					. 551.11		.3010	6101.	.0586	1878 2317 4974	3733	3114	3197			
					۵.		0.5%	.0855	9770.	2590 3012 3377	5644	5398	4901			
	1.0460				500.25		.2040	+980·	. 0568 . 0566 . 0566	. 0853 - 0603	1834 4181	4253	5350	1.0460	1751	
	1.0180				- 20		.1770				4385	.5014		1.0180	1568 1827	
	.9990		3655 3245		ø		.1660	.1043	8160. 1990.	. 1861 . 3643	.7032	.8039	.8233	0666.		4237
ABLE CP	.9600	1 <i>222</i> 2282 2835	3563	1918 3319	1.2474	BLE CP	. 1580					į	1 050.	.9600	1434 1401 1845 2781	
DEPENDENT VARIABLE	.9210	1874 2001 3167	2859	1230 0558	MACH	DEPENDENT VARIABLE	.1120		1222	.0693 .0665 .1329	. 1828		.2163	.9210	0282 0095 2459 1926	
DEPENDE	.8790	1152 2270 2906	0860	0196 .1791	4.244 M	DEPENDE	.0700	.2688	. 2318	1612 1465 1396	.1142		. 1704	.8790	.0502 .0320 1437 2245 3567	•
	.8210	1003 0110 .0616	04-10 62-43	1864.			.0460	.3823	3344 4458	2453 2448 2714	.3164		.3396	.821C	.1301 .1467 0953 0412	
AGE.	.7790	-,3159 -,2625 -,0303	.1132	. 1971 . 1971	BETA (3	AGE	.0230	.5385	52.49	.4612 .4567 .4347	. 3951		. 3885	3677.	.1745 .2017 3180 1358	.0885 .1887 .2331
110RBITER FUSELAGE	.7290	2510	0901	0026	7.882 8	ER FUSELAGE	.0080	.9979		.5277			.5704	.7290	.1456 2878 1876	0666
110881	.6520	1360	0690	0090 0131		1 10PBI TER	.0000	1.3631					1:3631	.5520	.09775 .0973 1190	0146
SECTION	X/LB	70.000 90.000 105.000	135.000	165.000	ALPHA (4)	SECTION (X/LB	PHI .000 20.030	40.000 55.000	70.000 90.000 120.000	150.000	165.000 169.000 174.000	130.000	X/LB	PH1 -000 -70.000 90.300 105.000	1 8 . 003 120 . 003 135 . 003 150 . 006

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(0A148) -14(A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) DATE 10 FEB 76

.9990 1.0180 1.0460 .9600 -.3620 DEPENDENT VARIABLE CP .9210 -.1327 .8790 . 1225 4.0.4 .8210 .4071 8 BETA (1) . 1822 . 1572 .730 BETA SECTION (1) ORBITER FUSELAGE 5700. . 7290 11.916 7.882 -.0234 .6520 ALPHA (4) = ALPHA (5) PHI 165.000 180.000 X/LB

.5740 .1309 .4970 .1250 .3780 .1666 552.05 .3010 .1327 .8310 .1450 .2040 600.28 .1770 . 1660 .2003 .2003 .2436 .1975 .1904 .2415 -3.850 MACH = 1.2463 . 1580 DEPENDENT VARIABLE CP .1120 .0700 .0460 . 0230 SECTION (1) ORBITER FUSELAGE .0080 1.3148 1.1098 .0000

.2288 .3039 .2523 .2367 .2010 .3525 .3525 .4113 .3945 .3141 .2741 . +845 . 5042 . 5085 . 5085 . +485 . +030 .6647 .7059 .7762 .7316 .6585 .5987

. 1592

.1302

.1818

.1621

.2031

-. 1483 -. 1974 -. 4460

-.0557 -.1194 -.5548

-.0479 -.0723 -.3908

-.1181 -.1564 -.2007

-. 1003

-.2347

-.4485

-.5538

-.4614

. 54.49. .7558

.787.

. 1245 .9210

.0937

.5788 .5934

.8392

.1358

-.0609

-.2082

-. 3391

-.5371

-. 5450

1.0460

1.0180

9990

.9600

.8790

-. 1437

-. 1856 -. 1454

-.0980 -.0994 -.1080 -.1831

.0585 -1308 -1201 -2514

.1176 .0005 .1169 .2296 .2651

- . W+?+ - . 2955

-.2497 -.2079 -.2566 -.3546

-.2704 -.1816 -.1682 -.0225

-. 1511

-.2730

-. 5323

-.5912

.2248 3328

.1093

.8210 .2264 .2458 .7790 .4602 .7290 1.3148

.2093 .2256 .2107 .0858 .0106 .2905 .3.00 -.4080 -.3608 .2723 .1908 .2753 -.2491 -.1617

Ī K/LB

-.3842 -.2090 . 1945 .000 70.000 90.000 105.000 110.000 135.000 156.000 156.000

-.1797 -.1442 -.0774 . 0525 1784 3092 3494. -.0105 .0010 -.0467 .0446 .0706 -.2082 -.0528

(XEBB24)

M63

1.

.7507

20.000 40.000 55.000 70.000 120.000 1140.000 151.000 165.000 165.000 174.000

366		3.0160		2	. 1397	. 1366												3.0160		į	. J. 40	.1208	. 1139		
PAGE				0/64.	.1300	.1106	2549	2317	0942	0507	;	040B						•	,		0/64.	. 1272	CSTO.	3046 2542 1437	
	£.	RN/L		.3780	. 1625	.1497	1270		2191	1966	,	1940						7780			.3780	. 1665	.1137	1971 2383 3669	
	(XE8824)	552.05		3010	1547	.1312	1239		4764	-,3627		3215						ERO CAR	90 · 900 · •		.3010	.1436	.1028	1737 2004 4725	
				0120 0	.1339	.1556	1729		5920	5175		5768							·		2510	.1373	. 1020	2092 2683 3246	
				. 2040	.1735	1206	1654	0501	-,3159	4465		5723	1.046J	1392				8	500.28		.2040	1554	36	0768 0768 0233	
_	FUSELAGE	= 600.28		.1770					5018	5495			1.0180	1185					•		.1770				
AMES 11-073-1	ORB B	o		. 1860	.1921	. 1978	.11.72	. 4226	. 744.		.7809	.7786	0666.			3+05			o		.166	1841	1338	.0573 .1664 .3752	
_	-140A/B/C/R	1.2463	LE CP	. 1580							7597		.9600	0985 0928	1072 2716 3043	3825	2267		1.2463	BLE CP	. 1580				
- 0A148	-073(0A148) -	MACH #	T VARIABLE	.1120		. 2409	. 1555	. 1316	.1300			.1305	.9210	.0334	2669 2411 4120	3087	1730		MACH	IT VARIABLE	.1120		5 qi	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
URE DATA	11-0730		DEPENDENT	.0700	.3655	.3421 .3591	. 2302	. 1350	CERAJ.			.0983	.8730	1241	2458 2974 3522	2075	0740		.25F M.	DEPENDENT	.0700	46. ATT.	. 3.73 6.05 6.05 6.05 7.05	1373 1373 1828 1828	
ED PRESSURE	AMES 11	n		05t0.	.4923	.4880 .4811	3992	.3068 .25.35	.2521			. 2350	.8210	.2369	2005 1071 0025	0295	±01±	.4985	# #		.0460	4.7 <u>6</u> 41.	# # O.D.	. 2798 . 2055 . 1891	
TABULATED		BETA (2)	JOE 10E	.0230	.6588	6790.	.6137 7542.	.5015	.3157			. 2635	.7790	3012	£202 3420 2020	.0173	.0180	.1015	BETA (3	AGE	. 0230	8558.	יייי. השלה	.4860 .4274 .4071 .3483	
			R FUSELAGE	.0080	1.1176			.6102				.4377	.7290	.3112	3842 2545	1337	0939	0238	. 922	ER FUSELAGE	.0090	1.1008		.4567	
9:		= 11.928	1) ORBITER	.0000	1,3517							1.38	.6520	.1883	2336 1376	0896	0592 0384	0347	0	110R917ER	0000.	404.0	•		
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PHI	20.000	55.000	90.000	140.000	151.000 162.000	169.000	174.000	X/LB	PH1 .000	90.000 90.000 05.000	110.000	150.000	180.000	ALPHA (5)	SECTION (an/x	Ind Eng		0.000	

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DATE 10 FEB 76	E B 76		TABULATED		PRESSURE DATA - OAIWB (AMES 11-073-1)	TA - 0A1	48 C AMES	\$ 11-073	· -					PAGE	387
				AME	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	\$(0A14B)	-140A/B/	C/R ORB	FUSELAGE			נאנס	(XEDDS#1)		}
ALPHA (5) =		11.922	BETA (3)		4.256								ì		
SECTION	1880(1)	SECTION (110RBITER FUSELAGE	-AGE		DEPENDE	DEPENDENT VARIABLE CP	ABLE CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	0771	C#00.	8	0102	50		į
PH1										2			9	Over.	0+/c:
150.000			.2852	.2294	.0581	. 0925		.6601		1501	5946	4050	1847	0580	
162.000 165.000									. 4822						
169.000								473T.		4542	5452	3297	1945	0495	
180.000	1.3052	.408°	.2626	.2533	. 1040	.1104	. 7529	.7874		5614	5236	3427	¥2.0.	CARO	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460				}	
H									•) - -					
.000 .000	1748	.2811		.2077	.1122	.0237				-, 1494					
70.000	2151	3678		1931 1522	2671 3333	. 2812 - 3071	1079 2181 2847		1496	1907					
110.000				1075	0+74	4642		;					-		
130.000	0461	1107		1687	2532	4007	5150	4255 4255							
150.000	0332	0387	.1174	25.4. 25.4. 24.4.	1505	2391	2971								
180.000	0591	0+98	.0606	.4725	1321	1713	3719								

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

5		000.	1001	7.100			0472							
(05 AUG 75		***	1776	1	1030	1046	₹. <u>-</u>	0189	0429	0347	1358			
(XEBBS3)					7700	1335	1603	0881	1700	1967	2294			
CXE	DADAMETBIC	000	711.42		2010	1476	201+	1733	3295	2857	2332			
	•	RUDDER BOFLAP R-ELVN	_ _		515	0876	2392	4020 3556 2897	5174	4218	4485			
4.4		38 36 4	600.10		0402.	0609	2471	0155 0836 0186	0302 2963	4460	5662	1.0460	3317	
11-073(0A148) -140A/B/C/R ORB FUSELAGE			\$		0771.	•			96 18	. 5980		1.0190	4211	
C/R ORB			o		. 1660	0227	1616 1816	.1167 .1498 .3966	.8308	.8871	.8156	0666.		3768 2526
-140A/B/			1.0978	BLE CP	. 1580						.9762	.9500	3740 1471 0413 0622	-, 1573 -, 0745 -, 0559 -, 3510
3(0A14B)		222	MACH	DEPENDENT VARIABLE	.1120	ا ال	0708	.2915 .4903	.5769		.5769	.9210	2919 2587 0195 0669	1073 . 0088 . 0753
		1076.6800 IN. .0000 IN. 375.0000 IN.	.8 ⁴ 2	DEPENDE	.0700	.0184	0143	.3627 .3627 .4879	.5453		. 5358	.8790	2374 2597 .0731 .0389	1128 0321 .0595 .2907
AMES		. 1076. . 375.	3 = -3		.0460	.05142	.0831	.3876 .4718 .5043	.6418		.6114	.8210	1548 1443 3470 3507	.4303 .542 .5261 .5261
	4TA	XMRP YMRP ZMRP	BETA (1	AGE	. 0230	.1310 .1598	.3461 .5138	.6256 .7012 .7807	.7799		. 7220	.7790	0717 0755 0756 -3176 -3736	. 1274. . 1279. . 1578. . 1888. . 1848.
	REFERENCE DATA	S0.FT.	-3.988 B	ER FUSEL	.0080	.5491		.8763			.9759	.7290	0264 . 0626 . 1273	.2930 .2900 .2935
	REF	2690.0000 474.8000 936.0680 .0300	a	(1) ORBITER FUSELAGE	. 0000	1.3132					1.3132	.6520	.0678 0387 4379	.1592 .1691 .1826 .1793
		SREF * 6 LREF * BREF * SCALE *	ALPHA (1)	SECTION	X/LB	PH1 .000 .20.000	55.000	90.000 120.000 140.000	150.000	165.000 169.000 174.000		X/LB	PHI - 600 - 70.000 - 70.000 - 90.000 - 191.000	120.000 135.000 150.000 165.000

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-.0336 -.0258 .0273 -.0031 3.1881 -.0276 -.0310 -.0410 -.0172 -.0153 .4970 -. 0932 -. 11 W -.0135 .*970 -.0915 -.0147 野 -. 1470 -. 1332 -.1166 -.1228 -.2158 .3780 -.1176 .3780 -. 1405 -. 1262 -. 2321 -. 2264 1.8141 711.43 711.43 -. 2475 -. 4063 -. 6239 -.2850 -.1473 -.1900 .3010 -.1498 -.3041 -.4652 -.6943 -. 1942 -.2075 .3010 -.2243 -. 0908 -.5250 -.5043 -.4843 -.4736 -.4344 -.3987 -.4550 .8510 -.0900 -. 196H -.5170 -.5572 .25.0 -.1657 -.4910 -.0535 -.1811 -.1811 -.1811 -.1811 -.1811 -.2002 -.2011 -.2324 .2040 -.0418 -.0665 -.1371 -.1404 -.1495 -.3025 .2040 -.4531 -.3696 -.2686 1.0460 = 600.10 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .4502 .5245 1.0180 -.3934 .1770 .1770 -.0187 -.0433 -.1110 -.0275 .0433 .0650 0666. -.0187 -.0586 -.0586 .0002 .0007 . 1660 7538 .8522 . 1660 . 1940. -.4091 ø ø .1580 .9620 .9600 .1580 1.0978 -.3718 -.4318 -.1152 -.1403 4.273 MACH = 1.0978 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CR -.0556 -.0215 .0222 .1005 .1128 -.0467 -.0432 .0504 .1623 .1956 .4046 .5778 .9210 -.3082 -.2739 -.0803 -.1436 -.2012 -.1020 -.0446 .1120 . 1120 MACH ...0138 -.0196 -.0196 1143 1988 -2609 3771 -.1899 -.0956 .0071 .0700 .5393 -.2432 -.2530 .0297 -.0298 -.1129 .8790 .0700 -.0164 -.0162 .0020 .0671 .1233 .1838 .4985 161 . -.1702 -.1544 .3099 .3107 .0794 .0636 .0740 .1928 .2758 .3474 .5004 .8210 . 5611 . 5242 . 5685 .0836 .0615 .0607 .1739 .2382 .4064 .6042 .6144 .0460 <u>ر</u> م BETA (3) -.0973 -.0823 -.5528 -3069 -3614 .1310 .2883 .422 .5081 .5081 .5804 .5778 . 7282 . 0230 .0230 .7790 BETA SECTION (1) ORBITER FUSELAGE (1) ORBITER FUSELAGE .0080 -.0312 .2380 .0080 .5321 .5458 .7375 .9615 .7290 . 1072 1750 .3069 .3161 5889 -3.987 -3.982 .0000 .0641 .0019 .1475 .1565 .1737 .1908 .1958 .1783 1.2999 1.3169 .6520 .0000 .3169 PHA C 13 C - YHA 20.000 55.000 75.000 90.000 90.000 1140.000 151.000 165.000 165.000 165.000 165.000 165.000 20.000 46.000 55.000 76.000 90.000 40.000 70.000 90.000 1105.000 120.000 135.000 185.000 186.000 SECTION.

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4.273

BETA (3) =

-3.987

ALPHA (1) .

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(XE8825)

SECTION (1,088176	110RBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	J.E. CP									
(/LB	.0000	. 0080	. 0230	.0460	.0700	.1120	. 1580	. 1560	.1770	.2040	9510	.3010	.3780	.4970	.5740	
PH1 140.000 150.000 151.000			.6639	. 5585	.4521	.4775		.6697	.3508	4697	5312	2674	2858	0355		
165.000 169.000 174.000							Ş	.8106	.4515	4252	5496	2333	2560	0358		
180.000	1.2999	.9457	.7285	6419.	.5360	.5752	808.	.8338		5739	4241	2304	2155	0386		
/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460						
PHI .000 70.000 90.000	.0658 .0453 .1540 .1738	0254 .1160 .1715	0759 0714 2197	1596 1467 2795			3764 3934 1900		3595 3595	3137 3042						
110.003 120.000	.1783	. 2248	. 3476					4413								
135.000 150.000 165.000	7.881. 0.881.	.2828	.4366 .4619 .7074.	.4923 .6033	- 1738	2145	2417									
190.000	.1737	. 2935	9164	.6217			9579									
- (2) Vida		CSE BETA	TA (1)	= -3.6	BE7 MACH		1.0980	ø	599.15	<u> </u>	• •	710.01	RN/L		3.1813	
FCTTON C	TIORRITER FUSELAGE	A FUSELAC	щ		DEPENDENT	I VARIABLE	E CP								•	
'LB	. 0000	OBOD.	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740	
	1.7244	.6910		.1657 .1678	#880.	.0218		.0274	• •	.0138	0368	-	•	-106	035+	
00000000000000000000000000000000000000				.30+9	.1114	. 1927	•	0289	•	1093	1210	1247	0817	1092	0280	
90 000 80 000 80 000 80 000		** *** ***	.6953 .7209	.4239 .4743 .5469	. 3269 . 3546 . 43 67	.2790 .3213		1643	• •		3876 3530 2977	1435 2355 5514	1399 1634 1822	0489		
0.0 0.0 0.0 0.0 0.0 0.0			.67 9.	.5448	.4559	. 5078		.8083		3508	6168	4168	- 1808	06ët		
769 666 769 669 669 669 669 669 669 669							.9367	. 8506	. 5635	4977	· +86+ ·	3802	2167	0503		

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	
DATE 10 FEB 76	

.5740 .5740 -.0371 3 .¥970 -.1053 .4970 뜅 -.0319 -.0262 -. OF #2. -.02 Z Z -.2093 .3780 .3780 -.0903 -. 25E -. P.39 -.2551 (XEBB55) - 710.01 -.3046 .3010 -. 1231 .3010 -.0894 -.3935 -.3047 -. 282t--.5171 . 5000 -.0379 -.4442 -.4323 -.3912 .83 +960∵ -.5853 -. 5243 -.6191 -.5049 -.5720 .2040 -.6096 -. 2884 -. 2245 .2040 · 300g. -1.0460 1.0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE -.3457 +.2718 --.3547 1.0180 .1770 .1770 .4380 .5026 1.0180 0666. 0.31. -.3846 .0358 .0244 .0027 .0644 .1011 .1205 9880 .7745 .1660 .8243 .8073 7337 .1580 .9239 -.3000 .9600 .181 MACH = 1.0980 . 1580 9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -. 1875 -.1635 -.0747 -.0152 .0566 .1120 .1120 .5017 .9210 -.2107 -.1597 -.0431 -.1280 5097 .9210 0890 1429 2071 2381 3890 4758 -.1307 -.1515 .0441 .0132 -.1395 .0700 .8790 .0700 4482 .4450 .8790 .0869 .0895 .0885 .1941 .2276 .275 .2451 .4195 -.0590 -.0403 .2724 .2849 -.0585 -.0506 .5139 .0460 .8210 .3122 .4383 .4105 5215 .8210 .4568 .0460 . 1771 . 1623 . 1917 . 2821 . 3170 . 3614 5139 .058 BETA (2) . 0230 . 0230 .00.5 .0094 .6107 .7790 6210 2626 2790 4,056 4,954 5,386 5,386 6,299 6296 BETA SECTION (1) DRBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .8539 .0080 -.1438 .2180 .6919 .0562 .0353 .1733 .0080 .7201 のようの .0396 .7290 7290 .056 .0918 .0972 .0000 .0000 .6520 .1020 .0237 .0334 .0554 1.3300 0868 0470 1.3244 26+0 1.3300 A. PHA (2) LPHA (2) 40.000 20.000 90.000 110.000 125.000 165.000 185.000 PH? 180.000 .000 •0.000 X/LB X/LB

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

ALPHA (2)	•	950.	BETA (2	•	ā							14.	AEDDES)		
SECTION	110001	SECTION (1) DARITER FUSELAGE			DEPTENDE	DEFENDENT VARIABLE	BLE CP								
X/LB	.6520	. 7290	.7790	.8210	3678.	.9210		J665.	1.0180	1.0460					
70.000 90.000 105.000	.0171 .0482	1350 0696	. 1297 . 2055 . 2933	.2368 .2286 .2142	0028 0479 1292	0959 1535 2148	1421 1576 2469								
120.000 135.000 150.000 165.000	.0863 .0918 .0988	.1993	.3433 .3787 .4182 .4178	. 2149 . 4252 . 4608	1803 1083 0328	2345 1518 1019 0381	2806 1972 1804 3370								
ALPHA (2)		.056 BH	BETA (3)		.249	#ACH #	1.0980	G	566	599.15	α.	- 710.01		- EN/I	7.191
SECTION (I) OPBITER FUSELAGE	AGE		DEPENDENT	IT VARTABLE	OLE CP							i	
X/.'B	.0000	. 0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	£.	.3010	3780	4970	
PH1 20.000	1.3156	.6764	355. 152.	. 1684 1491	.0811	5730		. G251 2850		.0076	0452	0895	0960	:083	0323
96.000 96.000 96.000			.3367	1591.	. 1276	. 0610		.0355		0.0440	0918	1366	1014	3971	.0150
98.030 178.030		.5703	. 4340 . 4740 . 5360	.2534 .3663	1532	1487		.0504		0844 2225 2648	4903 4994 4868	2890 3792 6698	2159	0471 0365	
151.000			.5737	.4723	.3727	.4291		.6542		4686	5995	3379	2652	0364	
165. 200 165. 000 175. 005								1771	.4530	5118	6215	3042	2826	O+44	
180.000	1.3155	18251	.6:35	.5137	. 4395	. 5022	.8720	.7932	•	8206	50+1	3089	- 368	0470	
X/LB	.6520	.7293	0677.	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
PH1 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	.0510	9010. 9010. 9001.	0571 0587 - 2047	1533 - 1538 - 0513 -	2167 1827 1631	3144 3227 2047	• •	3379	2759					
105,000 110,000 120,000 135,000	5701.	.1953					. 3875 . . 2875 . . 2951	4442							

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073:0A148) -140A/B/C/R ORB FUSELAGE

5740 -.0467 .0086 -.1622 -.1119 -.1752 .4970 -.0827 -.0657 -.0617 -.0679 -.0522 Z -.0083 -. 1435 -.2002 -.3118 -.0311 .3780 -. 2099 -. 2655 -. 24.76 (XE8828) 710.48 -. 1319 -. 1862 -. 5418 -.0399 -.4519 .3010 -.0410 -.4953 -.3550 3315 - 3475 - 518.--.6037 .0111 -.0166 .85 -.5929 -.6769 ۵ -.5526 -.6579 .2040 1.0460 .9990 1.0180 1.0460 599.38 -.3215 .1770 5285 1.0180 9990 .8142 .1660 0864 0770 0853 1708 1916 2236 4138 -.3463 7850 .7291 0 -.2879 -.3030 -.0424 -.0809 -.0903 . 1580 .9600 .8957 .9600 -.3596 = 1.0978 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1739 -.1100 -.0510 -.1746 -.2439 -.2430 -.1568 -.0757 -.0118 -.1333 .1120 .4262 .9210 .9210 4323 -3.871 MACH . 1058 -.0784 -.1139 -.0192 -.0584 - 1801 - 1394 - 0901 - 4101 .8790 .0700 .8790 .3374 3+60 4.249 .0282 .0352 .1616 .1357 1408 3091 3127 .8210 .4750 .0460 .8210 2614 2688 3267 4250 4407 4559 4659 4324 .4051 BETA (1) BETA (3) .1243 .1416 -.3115 -.0648 .1319 . 1790 .4803 805. 1708. 1708. 1708. 1709. 1700. 1 .3968 .4:02 .0230 .3765 .4191 .5670 .6440 .6593 .6628 .730 5551 SECTION (110RBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .2143 . n680 .1652 -.0858 .1078 .1405 .8163 8518 .7168 .7290 -. 252--. 1881 -.7290 3.948 .056 .6520 .0000 1.3149 .6520 1115 1.3149 .0591 ALPHA (3) ALPHA (2) 40.000 90.000 90.000 1110.000 120.000 135.000 165.000 165.000 PH1 165.000 180.000 20.000 25.000 25.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0 X/Lb X/LB

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	5.1840		.5740	0372 009		3.1840	5740	0075
			.4970	0544 0757 1008 0925 0493 0493			.4970	0557 0942 0927 0639
323	BR/L		.3780	0273279519952265		FRIVE	.3780	0362 - 0661 - 5529 - 1920 -
(XEBB52)	- 710.48		.3010	0311 0565 2678 6036 4660 3529		- 710.48	.3010	0343 0768 2860 3361 6491
	۵		.8510	.0161 0168 3831 4108 5831 6804 5759		۵.	935	.0092 0305 4303 47?:
	599.38		.2040			599.38	.2040	. 0240 . 0240 . 0195 . 0078 . 1426
FUSELARE	# 90		.1770	4757	3068 5. 24.2 5. 24.2	= 599	0771.	
ORB	o		. 1660	. 0963 . 0903 . 1338 . 1389 . 1580 . 3441 . 7681	. +028 3601	ø	. 1660	.0937 .0944 .0977 .0937 .1039
-140A/B/C/R	1.0978	BLE CP	.1580	8858	. 2738 - 1555 - 1555 - 1894 - 2994 - 2502 - 2502 - 3453	1.0378	LE CP	
	MACH =	NT VARIABLE	.1120	. 1356 . 1356 . 1907 . 2267 . 3687 . 4425	.1596 - 1510 - 1418 - 1936 - 2633 - 2622 - 2622 - 1512	MACH #	IT VARIABLE	.0471 .1039 .1323 .1607 .1861
AMES 11-07310A1481	H 771.	CEPENDENT	.0700	. 1716 . 1428 . 1847 . 2389 . 2389 . 2475 . 4745 . 3474	. 10651 - 10529 - 10529 - 1056 - 1779 - 1994 - 1533 - 1553	.239 MA	DEPENDENT	1632 1731 1469 1694 1483
AME			.0460	.2657 .2503. .3328 .3328 .3358 .3516 .3972 .4199	.0372 .00.994 .10.1939 .10.17 .10.17 .3705 .4858	# #	.0450	. 2582 . 2771 . 2758 . 2759 . 2759 . 2759 . 2755
	BETA (2)	AGE	. 0230	384.9 4.45.7 4.45.7 5.45.9 5.59.9 5.50.9 5.03.5 5.03.5	. 1294 . 1847 . 1847 . 1847 . 1601 . 2392 . 2825 . 2825 . 2826 . 2826 . 3727 . 3727	74 C 33	.0230	.3766 .3692 .4167 .4378 .4578
	3.9+8 BI	ER FUSELAGE	. 0080	. 6829		50 BET	P FLCEL1	.8074 .5371
	3.0	1) ORB! TER	. 0000	1.3227		3.950	1) CRB1 TEP	1.3065
	ALPHA (3)	SECTION :	X/LB	PH 600 000 000 000 000 000 000 000 000 00	88000000000000000000000000000000000000	ALPHA (3)	SECTION (#

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

DATE 10 FEB 75

PAGE				07 0 4.	0376	0407	0509				•		0.64	.0033	. 1885. 1885.	2739	1102	86 .25	
	ĵ2			.3780	. 225.3	- 6465	2537				RNAL		.3780	9369				- 3410	
	(XE882)			.3010	3914	353t	3615				- 710.01		.3010	.0319	1213	5170	5887	509+	
				<u>8</u>	6449	6597	5780				۵.		93.0	.0636	. 2781 . 3270	3366	7340	6319	
				.2040	3868 5909	5660	6759	1.0460	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		599.84		.2040	.1212 .1169	2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	0887 0887	2463	6079	
	USELAGE			6. 6.	.3309	.3980		1.0180	3149		- 396		.1770				.4943	\$ 00°	
AMES 11-373-1	-140A/B/C/R JRB FUSELAGE			.1360	.6347	7137	1351	0666.	0 0 2 1		a		. 1 360	98. 128.		7414.	1384	1361.	
_	-140A/B/		BLE CP	.1580		!	.8347	.9600	2860 2952 2366 2789	4272 3427 3336 3652	1.0986	BLE CP	.1580						.8593
A - 0A148			DEPENDENT VARIABLE	.1120	.3802		.4290	.9210	1711 1500 2123 2529 3237	3849 3073 2700 1828	MACH =	VT VARIABLE	.1120	.1658	#145 2008.	336	.3652		
BULATED PRESSURE DATA	AMES 11-073(0A148)	4.239	DEPENDE	.0700	. 2839		.3357	.8790	0795 1001 0995 1534	3023 2508 1560 .0786	-3.857 M	DEPENDENT	.0700	5.55 5.05 5.05 5.05 5.05 5.05 5.05 5.05	XXXX 808 808 808 808 808	.2839	ģ.		
TED PRES	APE			.0450	.3851		. 4041	.8210	.0380 .0380 .035 .0958	.3692	-3		.0460	.3629	0894 144 144 144 144 144 144 144 144 144 1	.3863	.3285		
TABULAT		BETA (3)	lGE IGE	.0230	.4807		.4 96 0	.7790	.1190 .1337 -1343 .0255	.3116 .3100 .3086	BETA (1)	ige GE	.0230	.5095 .5548	8.68.68 8.68.68 8.68.68	.5453	£38±.		
			R FUSELAGE	.0080			.686	.7290	.1660 2297 1431	.030		R FUSEL	.0080	. 9 .30	Ě				
57		* 3.950	1) ORBITER	.0000			1.3065	.6520	. 1612 . 1745 0426 . 0088	.0615 .0927 .0911	- 7.932	(1109BITER FUSELAGE	. 0000	1.2845					
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 140.000 150.000	162,000 165,000 169,000	174.000 180.000	X/LB	Ph1 - 000 - 000 70.000 90.000	135.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PHI .000 20.000	55.66 6.66 6.66 6.66 6.66 6.66 6.66 6.6	120.000	150.030	165.000 165.000 169.000	174.000

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DATE 10 FEB 76

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							3.1812		04/c	.0187	.0350						
		0.65	.0636						0.654.	•	. agoo.	2115 1848 1511	90.90	.0463	- 9 W		
Ĉ		3780					1		.3780		.0323 -	1979 2663 3568		8202	1950		
		3010					710.01		.3010	.0339	.0129	2055 - 2450 - 5747 -	1	- 2404.	E E		
		0185					•		.2510	.0733	.0521	3235	7342 -	- 6829	7165 -		
		.2040	7099	1.0460	2503				.2040	.1183			2032	- 9665	. 7328 -	.0460	2449
COCHAGE		0771.		1.0180	2273		- 599.8*		.1770			• •		. 4463	•	.0180	2592
		. 1660	0,69.	0666.		2618 2618	o		. 1660	1432	1616	. 1571 . 1831 . 3528	.6877	717.	.7235	. 9990	•
	XE CP	. 1580		.9600	2402 2468 0971 1360	2220 1988 2156	1.0986	GD TE	.1580					!	1618.	.9600	2272 2260
	DEPENDENT VARIABLE	.1120	.3697	.9210	1172 0452 0452 1162	2131 1815 1458 0520	•	T VAR'ABLE	.1120	.1627	2085	.2260 .2461 .3323	.3599		3772	.9210	. 1107
-3.857	DEPENDE	.0700	.2497	.8790	0100 0488 0088 0562	2032 1907 0925 .1456	. 185 MACH	DEPENDENT	.0700	.2588	.2692 .2657	. 22.48 . 22.48 . 22.18	.2241		.2379	.8790	5.00.1
•		.0460	.3130	.8210	.0953 .1131 .0452 .0356	.1195 .3457 .4083		_	. 0460	.3713	.3567	.3352 .3273 .3217	.3239		.2963	.8210	- 5760.
BETA (1)	Ř	. 0230	.3609	.7790	. 1963 . 2193 3943 2688	. 1737 . 1544 . 1751 . 2253 . 2715	BETA (2)	SE SE	.0230	.5116	.583¥ .571¥	.5240 .5240 .4750	.4156		.3789	.7790	.2036 9255
7.932 86	TR FUSEL,	.0080	.5722	. 7290	.3224 3224 2574	1855 0576 .0124		R FUSELA	. 0090	9468		.6337			.5602	.7290	₹.
7.5	1.008178	0000.	1.2845	.6520	. 1697 - 1699 - 1699 - 1697	1567 0048 .0490	7.938	11098175	. 0000	1.2891					1682::	.6523	.2-2+
ALPHA (4)	SECTION (1) ORBITER FUSELAGE	X/LB	721 180.000	X/LB	PH1 . 000 . 000 . 000 . 000 . 000 . 000 . 000	125.000 135.000 150.000 165.000	ALPHA (4)	SECTION (1) OPBITER FUSELAGE	X/LB		55.000 55.000	90.000 180.000	150.000	165.000 169.000 169.000		X/13	1H4 000: 000:04

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TABULATED PRESSURE DATA - OAIHB (AMES 11-073-1 ,

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AMES 11-07310A!48) -140A/B/C/R ORB FUSELAGE

					3.1812		3740	¥ 2	. DI DE							
					•		0764.	9000	0376	- 1638 - 1474 - 5887	.0503	.652	0812			
					1/18		.3780	.0317	0153	12751 32751 37.57	- 9961	.2035 -	2257 -			
					710.01		.3010	.0375	.0231	.2822 .3147 .6285		3972	4085 -			
					•		.2510	1.00.	.01F7 -	3684 - 4342 - 4672 -	•	6718	.6350			
		1.0460			6		.20%0	1097	1170.	• • •		6119	- 1351.	.0460	2474	
		1.0180			= 599.84		0771.			••		. 3800	•	1.0810.1	2736 -	
		0666.	Š		0		. 1660	1,62	1	. 1.223 - 2.23 -	.6166	.7129	.7207	1 0666	••	844. 404.5
	LE CP	.9600	1480 1694 2711	3016 3022 2833 3546	1.0986	LE CP	.1580						. 7922	0396	2352 2505 2272 3138	
	DEPENDENT VARIABLE	.9210	1177 1800 2451	3325 2635 2250 1577	MACH =	DEPENDENT VARIABLE	.1120	9	1568	0.491. 0.491.	.3350		.3679	.9210	1112 1030 2548 2928	
185	DEPENDEN	.8790	0840 1644 2542	2759 1815 1215	4.238 MA	DEPENDEN	.0700	ָּ קַּיִּ נְּיִ	2016	. 1383 . 1338 . 1589	.1933		.2309	.8790	0146 0421 1557 2295	
		.6210	.0348 .0058 .0+82	.3476 .3476 .5330			.0460	.3613	3161	. 2355 7255 5755 5755	.29±0		.3205	.8210	. 0904 . 1081 . 0289 0239	mar-
BETA (2)	AGE	.7790	3906 2057 .0317	. 1895 . 1892 . 2347 . 2721 . 2962	BETA (3)	ige ige	.0230	.5050	1164	. 4289 4289 4250 5114	. 3838		.3857	.7790	. 1938 3220 1317	.1082 .2314 .2896
7.938 Bi	110R61TER FUSELAGE	.7290	3474	1160	.937 86	TR FUSEL	.0090	. 9354		1484			5415	.7290	.3242 3242	0783
7.9	11096176	.6520	1132	0505 0517 .0678 .0709	= 7.9	11 ORBITER FUSELAGE	. 0000	1.2762					1.2762	.6520	. 2869 . 2491 0976 0413	.0453
ALPHA (4)	SFCTION (X/LB	76.000 90.000 105.000	150.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 .000	00000 00000 00000	73.000 90.000 123.000	140.000 150.000	151.093 162.060 165.000 179.700	183.000	X/LB	941 000 40.000 70.000 93.000	110.000 135.000 150.000

DATE 10 FEB 76

(XEBB2S)					P 710.25 RN/L		4. 037E. 010E. 0155.	1131.	0. 8751. 1811. 7351.	2355 1134 1236 2 3012 1457 1922 2	5187	7854688029341	.7391554]24991	6734431319440						
Ж			1.0460		599.46		.2040	1866	2085	1527	.0143	2195	6595 -	7529 -	1.0460	2058				
FUSELAC			1.0180		ii ii		0771.					.4765	. ¥829		1.0180	2155	1788			
/C/R ORB			3666.		o		. 1660	.2126 #156	010%	. 2339 . 2569	.4051	.7536	.7616	.6659	.9990			3812)))	
-140A/B/C/R ORB FUSELAGE		ABLE CP	.9600	3802	1.0981	BLE CP	.1580							1518.	.9600	1836	1899 2212 3222 3473	2345	2500 	3548
3(04148)		ENT VARIABLE	.9210	2586	MACH	INT VARIABLE	.1120	2657	3247	. 2959 . 2914	.3001	.3121		.3183	.9210	0530	0049 2081 1970	2639	2043	1005
AMES 11-073(0A148)	4.238	DEPENDENT	.8790	.009	-3.845	DEPENDENT	.0700	.3636	. 3870	3227	. 1957	. 1523		.1624	.8790	.0577	. 0703 0895 1366	1918	2069	.0896
AM	3) = (2		.8210	5464·	= = =		.0460	4716	508.	.3917	.2912	. 2279		. 2269	.8210	. 1652		. 1262	.3033	.5316
	BETA (LAGE	.7790	.2579 .2579	BETA (1	AGE	. 0230	.6426 .6847	95,87.	.637!	. 4534	.3210		£47.	0677.	.2630	4704 3776 1041	.0699	.0555	. 1647 . 24 16
	7.937	1) ORBITER FUSEI	. 7290	6010.	3 076.11	ER FUSEL	. 0080	1.0534		.7129				.4237	.7290	.3213	3781	1808	1779	0315
		(1308B1)	.6520	. 0890 . 0693		1109811	.0000	1.2324						1.2324	.6520	3225.	1528 0739	1753	0556	. 0880 . 0889
	ALPHA (4)	SECTION	X/LB	PH1 165.000 190.000	ALPHA (5)	SECTION (1) CRBITER FUSEL	X/18	PH! .000 20.000	45.620 15.000	70.000 90.000	140.000	151.000	165.000 159.000	:80.300	X/LB	1Hd .000 .000	90.000 105.000	180.000	150.030	000.091

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PAGE		٠.		.4970	.1026	.0776	3215 3193 2170	0917	0+5 +	0388				•		0.4970	9680.	.0303	3557 2483 1517
	82 5)	5 RN/L		.3780	.1199	.0965	1989 2617 7036	2460	1890	1738				PAV.L		.3780	.1050	.0386	2888 3390 3647
	(XE8825)	- 710.25		.3010	.1137	.0797	1989 2278 5635	5980	4468	4113				710.25		.3010	.1070	. 0241	2847 3112 6236
		a		.2510	.1370	. 0998	2862 3552 4043	7765	6746	7356				•		0189.	. 1287	.0431	3397 4157 4761
·		599.46		.2040	1924	1755	0630 0630	1884	6404	7641	1.0460	2266 1907		599.46		.2040	1699	1076	
_	-USELAGE			.1770					0404. 3854.		1.0180	2171 1955		* 599		.1770			
AMES 11-073-1	-140A/B/C/R ORB FUSELAGE	0		. 1660	2019.	22.15	. 1550 . 1938 . 3543	.6744	. 7035	. 6855	0666.		3282	•		.1660	.2025	1631	.1038 .1363 .2956
_	-140A/B/	1.0981	PLE CP	.1580					· .	***	.9600	1775 1910 1609 2525	3585 3218 3285 3585	1.0981	LE CP	.1580			
A - 0A148		MACH .	NT VARIABLE	.1120	20.00	.2664 9.90	2262 2262 2862 2879	.3101		.3260	.9210	0521 0109 2050 2328	3587 3088 2926 2017	MACH =	IT VARIABLE	.1120	2008	1814	. 1786 . 1786 . 2626
SURE DATA	AMES 11-073(0A148)	. 187 M.	DEPENDENT	.0700	3578	.3509	. 2043 . 2043 . 1822 . 1311	.1093		.1320	.8790	.0671 .0284 1618 1854 4498	3156 2344 1897 .0523	.250 MA	DEPENDENT	.0700	3405	.2707	.0896
TED PRESSURE	AME	•		.0460	4757 4757	4627	.3208 .2879 .2374	. 2289		. 1988	.8210	.1634 .1885 1790 0882	.3372 .3372 .5521	#		.0460	.4622	3817	.1939 .1939 .1841
TABULATED		BETA (2)	AGE	. 0230	1940 1940 1940	.6552	.5096 .5096 .4658 .3814	.2951	1	.2568	.7790	.2583 4904 3897 1493	.0416 .1039 .1655 .2333	BETA (3)	ر ود	. 0230	8498. 4408.	5477	.3909 .3700 .3214
			ER FUSELAGE	.0080	1.0588		. 5663			+50+.	.7290	.3297	1335 0877 0296	.975 BE	R FUSELAGE	.0080	1.0413		5714.
376		• 11.981	1) ORBI TER	. 0000	1.2357					1.2357	.6520	.3359 1195 0690	0456 .0419 .0863 .9951	= 11.9	130FB1TER	.0000	1.2189		
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PH1 .000 20.000	40.000 FF.	90.000 120.000	150.000	162.000 165.000 169.000	180.003	X/LB	PH1 . 000 . 000 70.000 90.000 105.000	150.000 150.000 150.000 155.000	ALPHA (5)	SECTION (X/LB	PH] .000 .000	46.000 55.000	76.003 90.003 120.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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ALPHA (5)

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5740 .4970 -. 3721 -.0688 .3780 -.1955 -. 1822 -.2046 .3010 -.4278 -.5103 -.4451 .2510 -.7913 -.6939 -. TOT. -.3045 2040 -.6617 -.7765 1.0460 -.2283 .1770 .3134 -.2402 .9990 1.0180 . 1660 .5900 .6779 .6815 .1580 -.2028 -.2132 -.2271 -.3035 .7529 .9600 DEPENDENT VARIABLE CP .1120 . 2887 .3113 .9210 ...0620 -.0523 -.2862 -.2840 -.3986 .0700 . ამ46 .1246 .0434 .00739 -.2306 -.3826 .8790 .0460 .1466 .1694 -.1525 -.1336 .2058 . 2265 .9210 -.0677 .2193 .4657 .5215 .0230 .2668 .2595 .2773 -.4598 -.3493 .7790 .2541 .0172 .1331 .2307 .2555 SECTION (1) ORBITER FUSELAGE .000 -.4290 .3715 .7290 .3212 -.0429 -.1170 -.0403 .0000 .3193 .3243 -.1277 .6570 1.2189 .088**5** .0387 .0744 .0345 PH1 140.000 150.000 151.000 162.000 165.000 174.000 40.000 40.000 90.000 105.000 110.000 135.000 158.000 168.000

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38	. 27	1	906.	7 5550	BCBC .	5740		B/ 10	0451														
PAGE	05 AUG		* * *	i i	,	6000			0494	.1024	. 0910 . 0647	3440.		.0+05	9750								
	B26) (IC DATA	SPDBRK L-ELVN MACH			7780		0000	0869	.0571	.0421	.0210		.0138	.0058								
	(XE8826)	PARAMETRIC DATA	8000	* 1059.2		3010	92.30	9	1285	0190	0631 1244	0726		0425	0168								
			RUDDER = BOFLAP = R-ELVN =	۵		.2510	1000		1 25	7247	5633 5863	8605		7773	7671								
	lal		<u></u> ጀወፋ	599.79		.2040	1616 -	2470	4385	2305	2084	1616 2771		8397	9428	1.0460		1466	1841.				
<u>.</u>	FUSELAGE			*		.1770							3871			1.0180		0768	95.				
5 11-073	C/R ORB			ø		.1660	-,2162	2638	3563	0974	. 1811	.6540		.7149	.6387	0666.					2247		
48 (AME)	-140A/B/C/R			0+668.	BLE CP	.1580									. 8242	.9500			0561	1088		1 <i>87</i> 5 1 <i>92</i> 8	2044
TA - 0A1	3(0A14B)		888 848	MACH	DEPENDENT VARIABLE	.1120		- 2457 200	1010	.0586	3191	.4132			9604.	.9210		3808	0352	0885 1462		1386	
PRESSURE DATA - 0A148 (AMES 11-073-1	AMES 11-073(0A148)		1076.6800 IN. .0000 IN. 375.0000 IN.	-3.845 F	DEPENDE	.0700	1716	2315	0036	. 1233	3291	. 3999			.3870	.8790				1336 2483		2164 1264	
	A		375	•		.0460	'n	- 1381	• •	3077	4518	.4979			.4657	.8210	1		551	. 1957 . 2461		4554. 1754.	1664.
TABULATED		ATA	XMRP YMRP ZMRP	BETA (1)	AGE	.0230	0800	0521 1465	3362	5604.	.6339	.6363			.5821	.7790		2376	040	. 1862	.285	3529	3131
		REFERENCE DATA	50.7T.	-3.986	ER FUSEL	.0080	.3558			.7297					.8407	.7290	6	2012	0470		. 0882	.1296	.1301
FEB 76		REF	71:30,0000 474,8000 936,0580	e	SECTION (1) ORBITER FUSELAGE	.0000	1.1883								1.1883	.6520		2338	0270		. 0596	.0670	.0536
DATE 10 F			SHLF * LREF * BREF * SCALE *	ALPHA (1)	SECTION	X/LB	PH]	40.000 40.000	55.000	90.00	120.000 140.000	150.000	162.000 165.000	169.000	180.000	X/LB	PHI	40.000	70.070	105.000	120.000	150.050	180.000

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}	3.5659		5740	0097	0119										3,5659		5740	0283	0066	
	" ئے		.4970	9.	0080	.0857	.0445	.0514	.0471								0764.	0100.	₩200.	.0582 .0526 .0208
92G)	PRN/L		.3780	0236	0352	.0500	.0130	.0232	.0249						RN/L		.3780	•	- 1750	.0400
(XEBBSB)	= 1059.2		.3010	0682	0731	0317	1642	0184	0052						1059.2		.3010	0781	05250 -	1200 2767 3037 -
	۵		.2510	1798	3318	7506	6678	7411	7439						# 0.		5155	2214	.3587	8520 7216 8177
	599.79		.2040	2136	3449 3449	3173	4227 4432 7892	8377	9446	1.0460	1469	1569					.2040	. 2550	- 3399	
FUSELAGE	# 59		.1770				:	. 3057		1.0180	0750				= 599.79		.1770	• •	••	•••
ORB B	o		.1660	2198	.3101	1837	.5740	.6825	.6709	.9990			2952		0		. 1660	2103	2628	-, 2578 -, 2578 -, 0658
-140A/B/C/R	.89940	BLE CP	.1580						.8110	.9600	2407	2479 1105 1488		2645	.89940	E CP	.1580	•	•	•••
11-073(0A148)	MACH =	NT VARIABLE	.1120	0000	2125	0269 . 0058	.3683		.4155	.9210		3585 1140 1738 - 2170			ŧ	VARIABLE	.1120	.2173	2006	0908 0814 .1199
5 11-073	. 190 M	DEPENDENT	.0700	1806 2186	2127 0684	.0956	. 2532		. 3936	.8790		2060 2915 2915		- 2498 - 0432	4.276 MACH	DEPENDENT	.0700		2042 -	
AMES			.0460	0981	1160	.1037	. 4555		.4695	.8210	3491	- 0.40 -			# #		.0460	1048		. 0025 . 0579 . 2315
	BETA (2)	AGE	. 0230	0747	.0951	.3421 .4235 .835	. 5826		.5902	0677.		. 6307 . 0259 . 0843	.2140 .3094	. 3233 . 3247 . 3297	(K (3)	ы	.0230	0800		. 302E . 302E . 4205
		1) ORBITER FUSELAGE	.0080	.3517		.5784			.8322	.7290	1915	0632	819	.1331	985 BETA	R FUSELAGE	.0080	.3+02		9614.
	776.5- = ((1) ORBITI	. 0000	1.1939					1.1939	.6520	1.1254	.0167	. 0536	. 0830 . 0797 . 0666	36.2	1) ORBITER	. 0000	5.771		
	ALPHA (1)	SECTION (X/LB	PH1 .000 20.000	55.000	70.000 90.000 120.000	140,000 150,000 151,000	152.000 165.000 169.000	180.000	X/LB	1H9 000.	70.000 90.000 105.000	119.639 180.839 135.888	158.000 165.000 180.000	ALPHA (1)	SECTION (X/i.e	PH! .030 20.030		93.080 83.080 120.080

383				5740							3.5651		.5740	.0259	.0257			
PAGE				.4970	.0166	. 0208	.0213				•		0764.	.0268	. 0045	.0412 .0412 .0051	.0066	9500.
	326)			.3780	0150	0089	0008				RN/L		.3780	0234	0355	.0152 .0052	.0197	.0169
	(XE8826)			.3010	1051	0650	0643				1059.7		.3010	0878	- 1980	0940 1366 2545	2446	1361
				.2510	8611	7502	7635				•		.2510	. 1759	2707	.6368	979.	8568
				.2040	8181 8882	8591	9459	1.0460	1435		599.18		.2040	- 1683		- 2543 - 2523		9075
	ORB FUSELAGE			.1770	1911	.6631		1.0180	0770 0941		8		.1770					3394
- 0A148 (AMES 11-073-1	C/R ORB			. 1660	4789	.6341	.6629	.9990		£9₁	0		.1660	1675	- 2252	0484 0230 .1946	.6255	.6708
18 (AMES	-140A/B/C/R		BLE CP	.1580			. 7560	.9600	2496 2078 1532 1877	3643 4970 3787 2008	74868.	LE CP	.1580					7808
	11-0731041481		DEPENDENT VARIABLE	.1120	.3046		**! *.	.9210	3984 3497 2471 3576	5979 4783 4356 3521	# WACH	IT VARIABLE	.1120	1663	1188	. 1042 . 1412 . 2893	.3387	
PRESSURE DATA	S 11-073	4.276	DEPENDE	.0700	.2977		.3877	.8790	4663 4352 3000 3779	6521 4835 3538 1305	-3.869 MA	DEPENDENT	.0700	0909	0787	.1596 .1906 .2786	.2986	
	AMES	3) - 4		.0460	.4078		.4715	.8210	3502 3325 .0543 .0664	.0991 .3774 .5231 .5249			.0460			.3133 .3949	.3909	
TABULATED		BETA (3	AGE	. 0230	.5173		.5900	.7790	2418 2338 0137 .0552	.1517 .2829 .2948 .2948	BETA (1)	ICE	. 0230				.5270	
		-4. na5 = 8	110RBITER FUSELAGE	.0080			.8106	.7290	2205 0602 0217	.0970	.051 86	110RBITER FUSELAGE	. 0080	.5110		.7155		
9 76 5		•		.0000			1.1772	.6520	1465 1768 0097 .0180	.0421 .0426 .0540	•	1.1088116	. 0000	1.2041				
DATE 10 FEB		ALPHA (1)	SECTION	x/LB	PHI 140.000 150.000 151.000	165.000 169.000	180.000	X/LB	PHI .000 40.000 70.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (2)	SEC110N (X/LB	7H1 . 600 20. 605	40.030 55.000	70,000 90,000 170,000	150.000	162.030 165.030 169.030

		.5740					3.5651		.5740	.0235	.0418						
		0.4870	.0037				•		0764.	. 0287	.0147	.0382 .0401 .0234	.0121	.0166	5410.		
		.3780	.0150		,		PRN/L		.3780	0189	0129	.0016 .0054 .0090	.0197	.0164	9710.		
		.3010	0696				1059.7		.3010	0658	0627	0888 1202 2199	-, 1655	0860	0731		
		93.0	8672				•		.25:0	1924	2807	7337 7189 6870	9532	8601	8463		
		.2040	-1.0463	1.0460	1559 1559		559.18		.2040	1730	- 2209	2647 3866 4182	9371	9255	9417	1.0460	1392
		0771.	·	1.0180	-, 0803 -, 1382		* 38		.1770					. 2735		1.0180	0677
		.1660	.5846	0666.	2857 2115		o		. 1660	1485	- 1908	1128 1064 0930	:547;	.6456	.6253	0666	
	BLE CP	.1580		.9600	2645 2871 0557 1068 1553 1899 1948		.85877	RE CP	.1580					Î	21//-	.9600	2519 2472
	DEPENDENT VARIABLE	.1120	.3316	.9210	-,4463 -,3898 -,0236 -,0351 -,1350 -,1350 -,1576	5031.	MACH .	IT VARIABLE	.1120		1176	. 0318 . 0318 . 2149	.3111		.3473	.9210	3632
-3.869	DEPENDE	.0700	.2843	.8790	3934 3593 0734 1477 2436 3773 5829		.17 m	DEPENDENT	.0700	0813	0728	. 0882 . 0882 . 1928	.2713		.2971	.8790	3845 3353
-3		.0460	.3561	.8210	2773.1 2047.1 1416.1 1717.2 12850.2 1853.1 23195.2	.4023			.0460	0057	.0171	. 1563 . 2039 . 3097	.3711		.3799	.8210	2566 2518
BETA (1	A GE	. 0230	. 4565	0677.	7.1507 - 1358 - 100.1 - 160.2 - 123.7 - 120.2 - 120.2 - 120.2 - 120.2	.2621	BETA (2)	IGE	.0230	.0795	.2333	.3830 .4279 .4279	.4865		8474.	.7790	-, 1539
.061 84	CR FUSEL	. 0080	.7108	.7290	0773 2167 1411 0250	.0711	.067 BE	110RBITER FUSELAGE	.0080	. 5225		.5687			.7030	. 7250	0860
•	130RB1TE	. 0000	1.2041	.6520	0300 0891 1096 0674 0620	0084		1 JORBI TE	. 0000	1.2086					1.2086	0279.	0361 0736
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 190.000	X/LB	PHI .000 40.000 90.000 105.000 170.000 170.000 170.000	180.000	ALPHA (2)	SECTION (X/LB	PH3 .000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90.00 90.000 120.000	150.030	182.000 185.000 189.000	180.030	X/1 b	PH1 .609 .49.000

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PAGE	56)						RN/L =		.3780 .4970	-, 0205 . 0255	0710. 8500	.0058 .0331 .0153 .0328 .0094 .0166	7,00. 8110.	.0099 .0051	.009+ .0023				
	(XEBB26)						• 1059.7		3010	0731	0506	0876 1412 2159	1163	0824	0698				
							۵.		.2510	1809	2760	7859 7871 7845	9681	8640	8702				
				1.0460			599.18		.2040	1723	. 2065	. 5639	95.46	8797	-1.0583	1.0460	1422		
· -	-140A/B/C/R ORB FUSELAGE			1.0180			= 59		.1770				į	. 1816		1.0180	0754 0973		
AMES 11-073-1	C/R ORB			ე666.	i G	2138	o		. 1660	1563	1743	1780	94549	J165.	.609+	.9990		rare.	2276
-	-140A/B/		BLE CP	.9600	0918 1298 1787	245 2411 2519 1907	.89877	BLE CP	. 1580						911/	.9600		1706 1967	2253 4758 3732
A - 0A148			NT VARIABLE	.9210	0911 1537 1921	2853 2408 2713 2489	MACH =	NT VARIABLE	.1120	į	1.161	0428 0428 0238 1317	.2539		.3369	.9210	4145 3849 2794	3782	6130 5168 4790
SURE DATA	AMES 11-07310A148)	5.1.	DEPENDENT	.8790	2176 2920 4200	5039 3829 3063 1015	.252	DE.PENDENT	.0700	-, 0899	1193 1089		7415.		. 2832	.8790	3825 3672 3208		6436 5259 4045
ABULATED PRESSURE	AMC	•		.8210	.0949 .0943	.2358 .3924 .4526	3) = 4		.0460	0052	0196	.0897 .0847 .062	.3206		.3550	.8210	<i>272</i> 5 2543 .0252	.0326	.0905
TABULA		BETA (2)	AGE	.7790	0506 .0285 .0972	.1762 .2426 .2711 .2666 .2732	BETA (3	AGE	.0230	.0607	. 0543 . 1543	. 2625 . 2625 . 3050 . 3753	.4243		.4677	.7796	1517 1403 0685	0016 .06!5	. 1158 . 2131 . 2436
		.067 B	LIORBITER FUSELAGE	.7290	2089	0085 .0574 .0747	.063 B	ER FUSELAGE	.0080	.5011		¥01 *.			.6822	. 7290	0792	1261	0272
9 76				.6520	1254	0305 0019 .0009	u	1) ORBITER	.0000	1.1949					1.1949	.6520	-, 0354 -, 0484 -, 1204	0714	0265
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	74.000 90.000 105.000	120.000 135.000 135.000 165.000	ALPHA (2)	SECTION (X/LB	PH: .000	20.000 40.000	55.600 70.600 90.000 120.000	140.000 150.000	151.400 162.000 165.000 169.000	174.000	X/LB	PH1 . C00 40.000 70.030	90.000	125.009 135.009 156.009

.0559.

.5740

3.5651

機関・通りのでは、1000円の関係の関係の関係を関係している。これが、1000円では、

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(CA148) -140A/B/C/R ORB FUSELAGE

				3 5652		.5740		.07B2	3001.														
				٠ -		0.64.		.0520	.0569	5		0203	0116		0050								
				FRN/L		.3780		+100	.0157	0360	0350	.033	.0338		.0390								
				1060.5		.3010		0649	0403	21.21	- 2096 - 3444	4324	4143		2609								
				•		.2510		1304	1813	5025	6221 6188	-1.0101	8148		9300								
		1.0460		598.42		.2040		1025	1218 1316	1144	2085 2596	3516	9617		-1.0956	1.0460		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1					
		1.0180		* 596		0771.							3013		1	1.0180		1397					
		ე666.		o		.1660		0963	1067	0186	. 2020 2023 2023	.6011		.6330	.5372	0666.					2013		
	R CP	.9600	1966	.89787	ALE CP	.1580								7076		.9600	ć	3315	0445			2062	- 138 .
	DEPENDENT VARIABLE CP	.9210	4179	MACH .	DEPENDENT VARIABLE	.1120		į	30 30	1306	.2514	.2679			. 2589	.9210	1	3321	0106	1363		1605	1 1 1 1 1 1
4.252	DEPENDEN	.8790	1919	-3.877 M	DEPENDEN	.0700		5110.			. 1936	502.			1921	.8790	2002		0535	2178		2567	
		.8210	. 4229	ø		.0460					3079	.2863			.2583	.8210	i	1933	. 1181 1349	. 1524		2771	. 3384
BETA (3)	IGE	.7790	.2706	BETA (1)	ñ	.0230		.2072	0n1+	5133	.5213 .4905	1일4			.3302	D677.	2002		0867 0003		2109	. 2 399	, <u>, ,</u>
. 063 8£	R FUSELA	.7290	7170.		R FUSELA	.0080		.6623			.6806				.5663	.7290	ָ ה נ		4450 -		1583	0009	.0061
•	1) ORBITE	.6520	0008	± 3.954	1) ORBITE	.0000		1.1930							1.1930	.6520			2164 1659		- 1888 -	. 6180	
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 165.000 180.003	ALPHA (3)	SECTION (1) ORBITER FUSELAGE	X/LB	i di	000.	000.00	70.000	90.000 120.000	150.000 150.000	162.990	174 200	000	X/:B	PH;		70.636 96.636				

28		3.9652		57.0	. 1053				3.9652	O.C.	ez. 1036
PAGE		•		ore*.	.0037 .0037 .0082 .0081	.0020			•	0284	.05.0 .000 .000 .000 .000 .000
		S ROAL		3780	.0161	.0399 .0399			78	2780	. 0093 . 00335 . 0135
	(XE8826)	1060.5		.3010	0491 0546 1574 1798	3773			1060.5	2010	
		•		93.0	1383 1963 6682 7276 703%	9462		·	1		
		598.42		.2040	1.1875 1.1888 1.1888 1.1888 1.3147	513* 8827 9819	1.0460	1280 1276	,	Š	. 1107 - 1267 - 1473 - 2546 - 2587 - 4110
	ORB FUSELAGE	• 59		.1770		. 2392	1.0180	1071 1071	- 596	1770	
(AMES 11-073-1	C/R 0RB	0		. 1660	0850 0918 0700 0726 0565	.5188 .6042	0666	1970	a	1660	
	-140A/B/C/R	.89787	SLE CP	. 1580		.7188	.9600	. 3382 . 3022 . 0765 . 1205 . 1695 . 2251 . 2334 . 1753	.69787	3.E CP	
A - 0A143	(6414B)	MACH .	NT VARIABLE	.1120	0673 0203 0285 0578 0578 .0810	. 2501	.9210	. 2596 3260 3260 	MACH .	NT VARIABLE	2070 2850 11200 1200
PESSURE DATA	APES 11-07310A148)	. 186 н	DEPENDENT	.0700	- 0065 - 0065 - 0063 - 0035 - 1091 - 1091 - 1091	.1878	.8790	2958 2740 1554 3807 5140 5140 1855	.243 m	LCPENDENT	
	APE	•		.0460	.1083 .1008 .1360 .1856 .2556 .2556	. 2695.	.8210	8705 1878 1050 1050 10689 1818 1878 1854	•	0.00	1056 1670 1870 2780 2780 2780 3460
TABULATED		BETA (2)	AGE	.0230	.8150 .8369 .3444 .3919 .4028	3831	.7790		BETA (3)	1.0E	5115 1535 1575 1675 1675 5797
		3.955 8	ER FUSELAGE	.0080	.5381	5683	.7290	0033 4287 3466 1199 0303	3.963 BI	ER FUSELAGE	.3764
B 76		•	1) ORBITER	0000	1.1979	1.1979	.6520	.0360 .0360 .2345 .1778 .1704 .0690 .0690	3.6	110MB17ER	1.187
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	741 200 200 25,000 25,000 35,000 30,000	156.000 157.000 157.000 167.000 17.000	X/LB	PH	ALPHA (3)	SECTION (25.05 26.05 25.05 25.05 26.05

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388				į									07.5	1451	1790			
PAGE				9191	.0036	5100 .	0066)	0264.		.1126	.0004	.0469	0242
	(XERB2K)			700	00+0	.0300	. 0362				5		3780	.0370	.0626	. 101.1		0816
	(XE			2010		2205	2443				- 1050 P		3010	0138	0054	1979 2434 5200		5003
					ī	8272	e544				<u>.</u>		5000	0573	0719	4861 5992 6421	_	6438
	ليا			0402	17	9843	-1.1083	1.04E0	1326 1348		600.20	! !	040	0447	0332	0943 1688	4792	-1.0265
-1 -	FUSELAGE			1770				1.0180	0628 0883				170				01110	1692: 1
(AMES 11-073-1	C/R ORB			. 1560	.4316	.5527	.5645	.9990		2208	ø		. 1660	0120	0.458	. 0304 . 0489 . 035	. 5823	. 5991
	-140A/B/C/R		BLE CP	.1580		.6673	Š	2005	2996 2373 1252 1572 1923	2406 2020 2181	.89930	LE CP	. 1580					.7006
7 - 0A148	(0A14B)		NT VARIABLE	.1120	.2076		65. 65. 65. 65.))	3766 3451 1731 2352 3104	6338 5467 5205 4664	MACH =	T V&RIABLE	. 112r	. 0283	. 1378	. 1565 . 1935	.2011	
PRESSURE DATA	AMES 11-07310A148)	4.243	DEPENDENT	.0700	.1389		5/B1.	06/0	2813 2820 3254 4167	6357 5455 4486 2410	.870 MA	DEPENDENT	.0700	.1162	.1760	.1957 .1898 .1506	.1136	
	AM	3) = 4		.0460	. 2358	ć	06.5		- 2056 - 1862 - 0082 - 0093	.3151 .4182 .3338	#		.0460	.2335	. 3309 . 3309	. 3045 . 2881 . 2459	.1896	
TABULATED		BETA (3	AGE	. 0230	.3309	Š	977.		0647 1470 0709 0709	.1544 .1544 .1749 .1824	PETA (1)	J.	.0230	.3543	. 5633 . 5465	.5149 .4864 .4033	. 2 <u>9</u> 45	
		3.963	1) ORBITER FUSELAGE	. 0080		6,750	7290		.0002 4011 2957	1305 0199		R FUSELAGE	. 0050	.73-je		.6312		
FEB 76				. 0000		1.1874	.6520		.0474 2329 1635	0364 0550 0578 0673	= 7.926	11CRBITER	0000.	1.1599				
DATE 10 FE		ALPHA (3)	SECTION C	X/LB	PH1 140.000 150.000 151.000	169.000 174.000 180.000	X/LB	5		120.000 135.000 150.000 165.000	ALPHA : 43	SECTION C	X/LB		12.000 12.000 12.000 13.0000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.0000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.0000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.0000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.0000 13.0000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.0000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.0000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.0000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 13.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000	93.00 93.000 120.000	150.000	165.000 169.000 174.000

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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DATA
PRESSURE
TABULATED
FEB 76

7.926 BETA	TABUL	TABULATED PRESSU AMES	PRESSURE DATA AMES 11-073(C	1 🕺	0A148 (AMES 11-073-1 148) -140A/B/C/R ORB FI	: 11-073- :C/R ORB	-1) FUSELAGE			(XE8826)	356)	PAGE	388
BEIA (1) :	m "	S.870 DEPENDENT	E	YARIA	WELE CP								
.0080 .0230 .0460 .0700	.0460	.0700		.1120	. 1580	. 1660	.1770	.2040	S.	.3010	.3780	, 60°	57.6
4213 .2151 .1737 .1038	.1737	.1038		.2004		.4973		9027	6588	4828	0916	0008	
0678. 08210 .8790	.8210	.8790		.9210	.9600	. 9990	1.9180	1.0460					
.0815001013502093 .021711082148 .57331302 .09330856 .48120525 .07431302 .054208052089	1360 1108 .0933 .0743	2093 2148 0856 1302		3501 3054 0587 1237	4851 4212 0715 1250		0465 1136	1213					
. 2593 . 1062 . 0812 - 3280 . 1061 . 1946 - 3637 . 0947 . 0977 . 2687 - 2852 . 0705 . 1098 . 3100	.08123280 .19463637 .26872852 .3100			2280 2182 1966 1452	1833 2216 2013	-, 2536 -, 1925							
BETA (2) = .179 MACH	• 179		ပ္		. 89930	œ	• 60(600.20	•	= 1060.2	RN/L	•	3.5747
1) ORBITER FUSELAGE DEPENDENT	DEPENDENT	DEPENDENT	⊨	VARIABLE	BLE CP								
.0080 .0230 .0460 .0700	0460 .0700			.1120	. 1580	.1650	0771.	.2040	93.0	.3010	.3780	0.79¥.	.5740
.1196	.1196			.0280	•	0070		0333	0531	0176	. 0 464	.1253	.1508
.2430 .1398 .2269 .1371	. 1398			.0681	•	0010		0519	1137	0477	.0471	. 1010	1768
	. 0979 . 0884 4780 .		• • •	0754 0872 1693	• •	0320 0217 .1344		1537 2539 3559	5884 6874 7052	2288 - 2394 -	0881 0808	0193 0222 0628	
. 2739 . 1843 . 0934 .	₹60.		•	1948		7994.	1752	8351 8351	6436	4690	. 1610.	0147	
						.5559		-1.0300	6560	4671	.029±	9500.	
. 2354 . 1502 . 1012	. 1012	•	ių	5111		.5305	7	.1237	6 494	3491	.0201	1600.	
0878. 0128. 0677. 0827	0	.8790		.9210	.9600	0666.	1.0180	1.0460					
. 0058128520700805207002022123	2070 2123			3475	4682 4339	•	0980	1217					

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AMES 11-073(04148) -1404/B/C/R ORB FUSELAGE

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BETA (2) .

7.938

ALPHA (4) .

DATE 10 FEB 76

				3.5747		5740	1361	. 1546									
				•		0.E+.	<u> </u>	.0776	0442 0299 0173	+390	. 0022	0075					
				PRV.		.3760	.0422	.0197	1029	.0007	0096	0554					
				1060.2		.3010	0194	1200	2233	4129	- 4654°-	- 4458					
				.		.2510	06¥6	1672		6822	7087	7227					
	1.0460			.20		.2040	0443	. 0998	2145 3372 4715	.6470	.0487	1.1785	1.0460	1261			
	1.0160			- 600.20		.1770				•	.1267	T	1.0180	-, 0492			
	.9990		1962 1962	o		. 1660	0164	0382	0953 0953 0532	.4123	.5142	.5213	0666.			2103 2171	
BLE CP	.9500	1134 1513 1981	2340 2424 2421 1751	.89930	RE CP	.1580						. 0023	0096.	4785	1655 1873 2178	2459 2547 2668	
DEPENDENT VARIABLE	.9210	1356 2032 2186	3310 2882 3154 2977	MACH =	DEPENDENT VARIABLE	.1120	: :	0133	. 0023 . 0227 . 1210	.1605		. 1968	.9210	3502	2537 3262 4249	5587 4527 4910	
DEPENDE	.8790	1881 2628 3712	4923 4376 3721 1669	4.243 M	DEPENDE	.0700	. 1043 343	.0801	. 00.22 00.23 02.50	.0587		.0915	.8790	2116	2772 3524 4848	5532 4550 3886	
	.8210	.0194 .0113	.0810 .2996 .4154 .3887	± 		.0460	4412.	. 1665	. 0882 . 0829 . 1100	.1532		.1485	.8210		0592 0619 0652	. 0162 .2674 .3862	
NGE	.7790	2189 1133 0146	.0134 .0860 .1124 .1281 .1394	BETA (3)	GE	.0230	3548	04+N.	. 2716 . 2706 . 2556	.2286		.2324	0277.	0018		0638 .0693 .1003	
1) ORBITER FUSELAGE	.7290	6196 4679	2415 1198 0741		R FUSELAGE	.0080	+064.		.3280			. 3839	.7290	.0788	1244°-	2262	
	.6520	310%	210: 128: 111: 1093	= 7.933	1.109B17ER	. 0000	1.1522					1.1522	.6520	. 1295 1339	3184 2439	1664	
SECTION	X/LB	70.000 90.000 105.000	150.000 150.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 .000	1000 1000 1000 1000 1000 1000 1000 100	70.000 90.000 120.000	140.000 157.930	2000 2000 2000 2000 2000 2000 2000 200	180.000	X/LB	060° 40.060 40.060	588	110.000 120.000 135.000	

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AMES 1.-073(0A148) -140A/B/C/R ORB FUSELAGE

.e. 185 ST. K -.0390 -.0566 -.2633 1748 -. 5909 £970 . 1763 P. 20. 3780 .0975 . 1155 1.1501 -.2221 -.2007 - 'Y 1050.2 -.2112 -.2467 -.5138 .3010 .0488 .0518 -.5117 -.5573 -.5661 -.5785 -.4307 -.5424 -.6571 -.6016 350 .0218 .0092 -.5878 -. 7237 .2040 .9990 1.0180 1.0460 1.0460 1.99.22 -.0405 -.1101 0771. .2387 .2389 1.0180 .9990 . 1660 0752 0814 1156 0517 0549 0599 1874 .456**8** .5644 5634 Ø - . 4547 - . 4545 - . 1411 - . 1685 - . 2215 -.2233 -.2435 -.2522 -.1906 6573 .9600 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 -.3386 -.2924 -.2772 -.2148 .9210 -.2399 -.4421 .9210 -.3108 -.2586 -.1958 -.2550 -.3254 . 1341 . 1938 . 1546 . 1480 . 1390 .1416 野工 AACH .8790 -.1513 -.1915 -.2561 -.2648 -.3244 -.3800 -.3773 -.3371 -.1243 . 3235 .0700 .0213 .2267 .2319 .2319 .2363 .1857 .1608 .8790 -3.85+ -.0515 -.0274 -.0096 .0375 .1314 .1934 .2892 .8210 3609 3351 3607 4012 3622 3020 2532 1495 .8210 .0460 .0761 BETA (1) .7790 .1149 .1069 . 0699 . 1029 - 1672 - 0616 .0230 .0956 0015 0092 0095 0745 1080 .7790 BETA SECTION (!) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.2117 -.7290 .0080 -.0856 .9234 . 25.75 . 7290 1521 -.2571 7.533 = 11.953 -.1104 .6520 .000 1.0976 3.0976 -.2574 -.2065 -.1664 .6520 .4313 .4513 .4513 .3757 ALPHA (4) ALPHA (5) PH1 165.030 190.000 40.000 90.000 90.000 90.000 1110.000 120.000 130.000 150.000 160.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.00000 26.00000 26.0000 26.0000 26.0000 26.0000 26.0000 26.0000 26.00000 2 X/LB Ē

395		3.5673		Į.	5. 5.				•	3.5673		Į.	.209 .215.
PAGE		•		.4970	.1880 .1540 0907 1332	0490	0080			•		.4970	.1743
	(926)	PRVL		.3780	. 1885 - 1885 - 1854 - 3004	1807	1743			FBV/L		.3780	.1014 .0359 1988 2372
	(XEBB26)	- 1060.2		.3010	. 2438 - 2438 - 24318 - 4318	5068	5239			1060.2		.3010	.0457 0779 3097 3553
		•		.0150	5258	5947	6295			.		5. 5. 5. 5.	.0245 1200 5986 7229 6966
		599.22		. 2040	.0516 .0365 .0078 0921 1239 2135	4915	9410	1.0460	1268	599.22		. 2040 0	.0448 .0130 .0527 1746 2801
-	FUSELAGE	- 596		.1770		. 1633	68/ T	1.0180	0975	* 599		0771.	
11-073-1	OR B	a		. 1660	.0774 .0734 .0715 0260 0191	.4829	.5148	.9990	-, 3002 -, 2224	0		. 1660	.0760 .0462 .0135 1013 0805
3 (AMES	-140A/B/C/R	.89857	RE CP	.1580			.6050	.9600	4470 4487 1907 2205 2467 2733 1942	.89857	LE CP	.1580	, , ,
1 - 0A148		MACH .	IT VARIABLE	.1120	.1287 .1361 .0539 .0708 .0746	. 1393	.1569	.9210	3117 2807 3165 4921 4299 4013	MACH .		.1120	. 1036 . 0656 - 0360 . 0190 . 0395
SURE DATA	AMES 11-073(0A146)	. 189 MA	DEPENDENT	.0700	.2286 .2110 .2234 .1418 .0797 .0685	.0178	. 0292	.8790	1509 1932 3158 4559 4590 3807	257 MA	DEPFINDENT	.0700	.2166 .1782 .1471 .0300 0197
red Pressure	AMES	•		. 6460	.3457 .3354 .3323 .2445 .1824 .1508	.0870	.0716	. 8210		j j		.0460	.3354 .2373 .2373 .1193 .0508
TABULATED		BETA (2)	ige Ige	. 0230	.5070 .5195 .5220 .4410 .3764 .3723	. 1543	1611.	.7790		BETA (3)	Ą	.050	.4965 .4538 .4107 .3013 .2425 .2187
			TH FUSELAGE	. 0080	.4160		2440	.7290	. 1642 5987 5987 2951 2150			. 0080	.9173 4725.
3 76		• 11.965	1 1 ORBITER	. 0000	1.1024		1.1024	.6520	. 2812 - 7508 - 7508 7508 2812 1559 1559	949.11	1) ORBITER	. 0000	: · 0895
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PHI - 000 -	140.000 150.000 151.000	165.000 169.000 174.000	X/LB	PH1 -000 40.000 70.000 10.000 110.000 150.000 150.000 165.000	ALPHA (5)	1 10N C	X/LB	PH1 - 020 - 20 .000 - 40 .000 55 .000 76 .000 90 .000

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.2138 .2420

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

.4970 .0043 -.0133 8+00·-.3780 -.2768 -.2028 -. £171 -.5396 .3010 -. 5201 -.5486 -.5970 .85 -.5975 -.599⁴ -.9410 .2040 -.6168 -.9898 -.6634 1.0460 -.1218 -.0341 .1770 . 1082 1.0180 . 1660 .3910 9880 .4815 .4833 .1580 -.4517 -.4559 -.3112 -.3002 .5864 .9600 DEPENDENT VARIABLE CP .1120 .1549 .9210 17. .0700 -.0133 .8790 .0141 .0782 .0460 .0775 -.0576 -.0266 -.1005 -.0892 .8210 . 2235 . 3504 3 .0230 .1308 .0704 .0834 -.2114 -.1275 -.0308 .0327 .0941 .0912 . 1215 .7790 BETA SECTION (1) ORBITER FUSELAGE .0080 -.7356 -.1450 -.1116 .2180 .7290 . 1592 -.2881 11.949 .0000 .6520 .2142 .2142 .4503 .3422 1.0895 -.2137 ALPHA (5) PH1 140.030 150.000 151.000 162.000 165.000 169.000 174.000 40.000 70.000 90.000 1105.000 1110.000 128.000 155.000 165.000 X/LB

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

- E		900.00	Š	1.040 1.040	.5740	0764	1465							
C 05 AUG		**	1	•	0.4970	0605	- 1474	.0998	0093	0236	0386			
(XEBB27)	1C DATA	SPOBRK L-ELVN MACH			.3780	0788	1667	.0610	0390	0567	0691			
BJX	PARAMETR1C	000	r 9826 .		.3010	0962	- 1941	0050 0367 1653	1026	1248	1331			
		RUDDER BOFLAP R-ELVN	۵	•	.2510	1303	2724	1376 1608 1807	3122	-,2352	2308			
ia ė		E B &	594,56		.2040	1523	2063	1227	1945 3546	9359	-1.1855	1.0460	1748	
FUSELAG			920	•	.1770				.2407	.2551	•	1.0180	1205	
-140A/B/C/M ONB FUSELAGE			o	ı	. 1660	- 1785	2397	0346 0099	.5644	.5725	37,72	.9950		1838
			. 59658	IBLE CP	.1580					1	. 7032	.9600	2343 2262 0619 1037	1381 1461 1405 1771
101 WO 15 10 11		800 24x 204x	MACH	DEPENDENT VARIABLE	.1120	Ĉ			.3508		.2905	.9210	2570 2128 .0161 0426	1181 0906 0763 0344
		76.6800 IN. .0000 IN. 75.0000 IN.	-7.853	DEPENDE	.0700		2993		.3484		.2780	.8790	2255 2255 0039 0918	14.36 1091 1111 1349
•		1076			.0460	2127	2255 .0620	. 2385 . 3377 . 4629	.4300		1345.	.8210	2412 2449 -1764 3316	.5107 .4850 .3300
	ATA	XMRP YMRP ZMRP	BETA (1)	. AGE	. 0230	2146	.0232	. 55127 . 5498 . 6204 . 6204	.5686		.4373	0677.	1924 1943 . 1748 . 1713	.2430 .285. 773. .2167
	REFERENCE DATA	50.FT.	-3.986	1) ORBITER FUSELAGE	.0080	. 1389		.7404			.7096	. 7290	1434	.0879 .0879
	Ą	2690.0000 474.8000 936.0680 .0300	n		. 0000	1.0111					1.0111	.6520	7.1182 7.2030 .0140	.0178
		SREF LREF BREF SCALE	ALPHA (1)	SECTION (X/LB	000. 2000 - دج	40.000	90.000 180.000 140.000	151.000	165.000 169.000 174.000	180.000	81/X	20.000 20.000 20.000 20.000 20.000 1005.000	150.050 150.050 150.050 160.050 160.050

PAGE 395

C C		4.848.4		.5740	0684	¥=:-								4.848.4		.5740	0694	0815	
PAGE		•		.4970	0472	1035	.0540 .0640	.0152	. 0080	₩000.				٠		.¥970	0435	0715	.0526 .0424 .0119
į	2	3 RN/L		.3780	0589	1105	.0289 .0105 0055	0214	0272	0358				FRAZL		.3780	0553	0760	0022 0118 0404
3	(XEBBE /)	- 2386.3		.3010	0827	1370	0422 0766 2016	0.00-	0990	0976				2386.3		.3010	0803	0982	0718 1070 2463
		٩		.2510	1119	2011	1795 2182 2317	2764	2068	1999				•		.2510	1092	1579	2644 2644 2864
		594.56		0+08.	1370	2664	1935 2709 2415	2695 4086	9397	-1.1576	1.0460	- 1661		594.56		.2040	1352	2273	
1)	ONB FUSELAGE	• 59		.1770				1687	<u> </u>	•	1.0180	7.1139 1144		* 500		.1770			
AMES 11-073-1	850 X/3	•		. 1660	1654	- 2963	1123 1049 .0828	.5035	.5612	.4669	0666.	6 6	. 1988	o		. 1660	1646	7.75.	1774
<u>۽</u>	-140A/B/C/R	. 59658	BLE CP	.1580					Š	no no	.9600	2411 2299 0835 1244	1861 1753 1751 1750	.59658	KE CP	. 1580			
3	11-0/S(CA14B)	MACH .	DEPENDENT VARIABLE	.1120	ה ה ה	2611	0000	.3247		.3216	.9210	2624 2057 0210 0843	1887 1300 1286 1182	MACH =	IT VARIABLE	.1120	2136	2261	0744
RESSURE DATA	5 11-075	-3.841 M	DEPENDE	.0700	. 2057	2615	. 1187	. 3299		.2113	.8790	2263 2301 0128 0680	2333 1746 1431 .0401	.187 M	DEPENDENT	.0700	2048	2362	0351 .0086 .1453
	AMLS			.0460	- 18t5	1897	. 1347 . 2177 . 3715	.4159		.3812	.8210	- 2456 - 2419 - 1245 - 1615 - 2889	.4389 .4389 .4182			.0460	1773	1884	. 0307 . 0923 . 2525
TABULATED P		BETA (2)	AGE	.0230	1747		.3413 .4312 .5288	¥146.		.4827	.7790	1849 1885 .0354 .0859	.2834 .2834 .2833 .2487	BETA (3)	IGE	. 0230	1793	1209	. 3018 . 4198
		-3.969 8	110RBITER FUSELAGE	.0080	. 1761		.6047			.7345	. 7290	1377 0403 .0118	.0033	3.9+9 BE	OR FUSELAGE	.0080	. 1782		**
6		ii M	1.0RB17	.0000	1.0545					1.0545	.6520	1077 1351 0094 .0259	.0313 .0476 .0416 .0231	-3.9	1) ORBITER	.0000	:.0578		
DAIE 10 FEB		ALPHA (1)	SECTION (X/LB	H. 600	40.000 55.000	70.000 90.000 120.000	150.000	162.000 165.000 169.000	190.000	X/LB	PHI - 000 -	120.000 131.000 155.000 165.000	ALPHA (1)	SECTION (X/LB	PH: . 023 20. 030	40.450 55.000	76.603 96.009 120.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

5740 -.0712 .5740 -.0581 . 5370 .0167 .0099 .0129 .4970 .0394 .0245 .0287 -.0487 -.0558 -.0159 -.0083 .3780 -.0304 .3780 -.0232 -.0254 -.0082 -.0246 -.0822 -.0589 -.0503 -.0551 -.0451 (XE8827) .3010 -.0946 -.0946 .3010 -.0809 -. 1884 -. 1234 -. 2974 -.0691 550 -. 1998 -. 2528 -. 1898 . 8 8 9 -.2463 -.2988 -.3433 -. 1256 -.1161 -.2539 -.2089 -. 3553 -. 4826 .2040 -.9345 -1.1294 -.1549 1.0460 .2040 -.9478 .1770 -.1115 .0368 1.0180 -.1056 .170 .9990 .1660 .4109 . 5221 .5091 -. 1655 -. 1716 -. 2289 -. 2331 -. 2716 -. 1918 . 1660 .4627 2877 . 1580 -.2438 -.2286 -.1013 -.1367 .6768 .9600 .1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 -.2634 -.2058 -.0545 -.1194 .2752 .3279 .9210 .1120 ..2022 ..2003 ..1966 ..1367 ..1493 2047 MACH .0700 . 2822 -.2285 -.2252 -.0589 -.1259 -.3436 -.2641 -.2120 -.0621 .3224 .8790 .0700 ..2246 ..2246 ..2324 .1589 .1189 2183 .187 .0460 .3685 .8210 . 394E .2382 .0743 .0871 .4454 .4768 ...1812 -..1822 -..1175 -..0559 -.0569 5784. .0460 .3129 BETA (3) **£** .0230 .4803 -.0051 .0465 .0849 E064. .7790 . 0230 +00+ SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 -.1423 -.0655 **.7214** .7290 . 0385 9660. 1098 .0080 £775. . 1554 -3.949 .0000 1.0578 .6520 . 1114 . 1634 . 0345 .0133 .0000 1.0376 0440 0478 0390 ALPHA (1) ALPHA (13 PM1 140.000 150.000 151.000 162.000 165.000 169.000 174.000 40.000 70.000 90.000 90.000 1105.000 125.000 125.000 155.000 185.000 185.000 .000 120.000 120.000 120.000 120.000 120.000 120.000 120.000 120.000 120.000 120.000 120.000 120.000 120.000 120.000 Ξ X/LB

(XE8827)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) DATE 10 FEB

5740 5740 -.0834 £970 -.0655 -.0611 -.0016 -.0511 Z -.0383 -.0193 -.0345 -.1261 .3780 -.0783 .3780 -.0771 -. 0926 -.0368 -. 1021 2386.3 -.1397 -.1002 -.1388 -.3522 -. 1007 .3010 -.0996 .3010 -.0595 -. 1516 -. 1509 -.2004 .2510 .2510 -. 1322 -.1147 -.2600 -.2430 -.2355 -.2695 -.9912 .2040 1.0460 -.1620 -1.1288 -.1634 .2040 -1.1494 1.0460 -.2632 1.0180 -.1169 .1770 -. 1174 -. 1172 1.0180 .170 0666 0666 -.2829 -.2473 3732 .4853 3910 . 166£ . 1660 .1453 . 1580 -.2447 -.2405 -.1986 -.1081 -.1551 .59658 3435 9600 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2624 -.1975 -.0802 -.1522 .1120 -. 1942 -. 2071 -. 2280 -. 1046 9210 -.2684 -.2020 .9210 .en3 .1120 .1059 .3181 B. 340 MACH .0700 -.2272 -.2304 -.2242 -.0977 -.1707 - 1917 - 1887 - 1931 - 1152 .2627 .0700 .8790 .3057 -.2443 -.2422 -.2297 .0375 .0298 .B210 -. 1694 -. 1539 -. 1428 .2208 3300 8210 .0460 .0460 3785 4614 BETA (5) -.1826 -.1738 -.0456 .0055 -.2002 -.2018 -.1281 -.0564 -.0058 -. 1881 -. 1660 .0230 .4823 . 1655 1960 2032 2317 .730 .0230 .7790 1981 (1) ORBITER FUSELAGE 130RBITER + USELAGE -.1429 -.0929 .0080 -.1497 .0080 .6940 .0556 6060 .1353 .1020 62.48 .7290 .7230 -.0193 -3.972 -3.957- 17.5 .0000 .0000 -.1177 -.1389 -.0491 -.0176 .9915 .9915 .6520 1.0376 .6520 -. 0209 ALPHA (1) 40.000 90.000 1105.000 120.000 135.000 165.000 40.000 55.000 90.000 120.000 1140.000 1151.000 1151.000 1151.000 1151.000 1151.000 1151.000 .000 .000 SECTION 180.000 X/LB X/LB X/LB

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					4.8456		.5740	0280	0559												
							.4970	0247	0700	9000	0527	0592	0640		0671						
					RNAL		.3780	0502	075t	.0256 5770	0693	0833	0917		0969						
					2386.5		.3010	0738	0957	0225	2178	1560	1665		1579						
					•		.2510	1042	- 1478	1343		- 4005	- 2884		2728						
		1.0460					.2040	-	5802		1746		.1262		-1.3588	1.0460	1695	3			
		1.0180			= 594.21		.1770	•		•			. 1718 - 1718		T	1.0180	2601				
		0666	ğ		o		. 1660	1. 1.28	2274	2.000.1 2000.1	1689	.5122		.5098	2862	. 9990	•		į	1679	
	LE CP	.9600	1192 1683 2197	3569 3161 3030 1938	. 59638	LE CP	.1580	·						, 65.70		Good.	2372	24.6	1519		1660
	DEPENDENT VARIABLE CP	.9210	1023 1784 2354	4379 3549 4083 3770	MACH =	DEPENDENT VARIABLE	.1120		1644	.1306	. 2816 . 2816	.2600			.2081	.9210	.2511	0268	0838	1269	1123
8.340	DEPENDER	.8790	1359 2114 3461	5941 5085 4715 2981	-7.886 M	DEPENDEN	.0700	1382	1358	.2005	. 2870	.2460			.1876	.8790	2072	.0361	0807	1.10	1622
		.8210	.0007 .0171 .0047	1173 .1399 .4242 .3583			. 0460	1168		4000 4000 4000 4000 4000 4000 4000 400		.3213			.243B	.9210		1735			55. 55. 50. 50. 50.
BETA (5)	IGE	.7790	0834 0538 0180	0261 .0665 .0965 .1163	BETA (1)	JGE 10E	. 0230			8104. 8094.		7844.			.3215	.7790	1406		1314	1921	. 2333 92:5:
	R FUSELA	.7290	1.95 989	075 + 0176	.056 BE	R FUSELA	.0080	.3192		1	BC6/ .				.5788	.7290	0951		-:63	0014	.0305
-3.972	DORBITER FUSELAGE	.6520	0682	0574 0404 0376 0306	0.	1.109B1TE	.0000	1.0372							1.0372	.6520	0606	0873	0430	0801	0421
ALPHA (1)	SECTION (X/LB	7041 70.000 90.000 105.000		ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1	40.000	86.05 80.09 80.09	120.000	150.000	151.000 162.000 165.003	169.000	180.000	X/LB				120.000	150.000

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(XE8827) .9990 1.0180 1.0460 .9600 DEPENDENT VARIABLE CP .9210 -.0576 AMES 11-073(0A148) .8790 -7.886 .8210 87 BETA SECTION (') ORBITER FUSELAGE .7290 .056 .6520 ALPHA (2)

-.0313 £978 -.0406 -.0282 -.0119 -.02± -.0580 -.0590 3780 -. 6585 -2386.5 -.1363 -. 1353 .3010 -.0642 -.0969 -.2269 - 129 -.0558 -.1823 -.2136 -.2615 -.0895 .83 .1187 -.3482 -.2596 -.2375 - 1047 - 1328 - 1754 - 1467 - 1666 - 2423 - 2623 - 3375 -1.0954 -1.3223 1.0460 .2040 594.21 1.0180 .170 9990 -.1217 -.1436 -.1826 -.0950 -.0696 -.0626 .4612 1864. 3964 .1660 O . 64.12 .9600 .59638 .1580 DEPELDENT VARIABLE CP -.1646 -.1329 -.0276 .0519 .0748 9210 .2376 .1120 2524 -3.863 MACH -.1181 -.1436 -.1140 .0459 .1013 .1359 .094∂ .0700 .2137 .8790 ie 798 .8210 .0460 .285 3565 .7790 .1356 0292 0052 1742 3169 3857 4377 .0230 #28# BETA 1) ORBITER FUSELAGE .5960 .7290 .0055 .0080 6060 .3594 .065 .6520 .0000 1.0750 1.0750 -.0487 ALPHA (2) 20.000 55.000 70.000 90.000 1120.000 1151.000 1152.000 1153.000 1154.000 1154.000 PH1 165.000 180.000 SECTION X/LB X/LB

-.0223

-.0287

5740

-.2576 -.2318 -.2230 -.0795 -.1265 - .2502 - .1874 - .0157 - .0805 - .1328 -.2358 -.2127 -.1998 -.1998 -.2016 -.2049 -.0174 -.0703 -.2102 -.2051 -1155 -1535 -2373 3684 3855 3045 -.1399 -.1380 -.0125 .0472 .1952 .2.85 .2.55 .2.160 .1967 -. 089+ -.1180 .0129 .0635 .0589 -.0054 -.0058 -.0136 9875 9875 1201 0700 - G-9-. 000 40.000 70.000 90.000 110.000 120.000 150.000 150.000 165.000

-.1083

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400		4.8456		5740	0188								4.8456		.5740	D2D3.
PAGE		ب •		.4970	0070 0256	.0035	0152	0107	0129				•		0.4970	0192 0192 0035
	(XE8827)	5 RN/L		.3780	0275	0282 0354 0463	0511	0492	0487				FAVIL		.3780	0353 0178 0379 0569
	(XE	= 2386.		.3010	0535	0907 1162 2374	1255	1250	1167				. 2386.5		.3010	0603 0413 1091 1302 2615
		Q.		.2510	0830	2243 2587 3040	3109	2466	2250				•		.25.0	0871 0972 2448 2876 3375
		594.21		.2040	1035 1139 1455	2238 3251 3574	5644	-1.0853	-1.2957	1.0460	1576 1405		594.21		.2040	1103 1190 1434 2098 3975
<u>.</u>	FUSELAGE	* 59		.1770			7.0127		•	1.0180	1101		594		0771.	
11-073-1	ORB	o		. 1660	1182 1317 1527	1379 1522 0305	.3698	.4677	0£4n.	0666.	Ç	2051	a		. 1660	1264 1278 1731 2016 2270
B (AMES	-140A/B/C/R	.59638	BLE CP	.1580				i C	in in in in in in in in in in in in in i	.9600	2319 2148 0948 1408	2226 2169 1709	.59638	LE CP	.1580	
A - 0A148	11-073(04148)	MACH =	NT VARIABLE	.1120	1472 1224 020	0234 0181	.2120		. 2505	.9210	2503 1633 0575 1225	2519 2047 2216 2214	#ACH #	T VARIABLE	.1120	1,1460 1,1329 1,1256 1,0869 1,0969
PRESSURE DATA	S 11-073	.184 M	DEPENDENT	.0700	1189 1365 1165	0103	.1964		.2143	.8790	2043 2067 0652 1352	3221 2848 2528 1001	.247 MA	DEF CNDENT	.0700	
	AMES	3) =		.0460	0716 0679 0543	.0834 .1211 .2207	6.850		.2912	.8210	2099 2020 0542 0547	.1723 .3550 .4300	j j		. 3460	0802 0815 0815 0815 0 . 0
TABULATED		BETA (3	AGE	. 0230	0317 0097 1216	.3163 .3163 .3744	. 3057		3748	.7790	1383 1336 0543 .0176	.1537 .2079 .2231 .7175.	TA (4)	ige.	. 0230	0445 0418 0418 118 189 189 189
		. 070 E	11CRBITER FUSELAGE	.0080	.3606	0 1 1 1			5947	.7290	0917 1424 0912	. 0518 8400.	.55 BET.	R FUSELAGE	.0093	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9 76 9 76				.0000	1.0829				B0000	.6520	0545 0805 1379 0889		E	1.0281TER	00001	6 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	PH1 80.000 40.000	70.000	170,070 151,050 167,050	164.00 164.00 14.00 14.00	15/2/16/1	ביי/א	00000000000000000000000000000000000000	COLLIC	A_F44 1 21	SECTION (ם : : ע	

(XE8827)

JA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/8/C/R ORB FUSELAG
TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)	AMES 11-073(0A14
DATE 10 FEB 76	

4.247

25. -.0379 .0083 57.0 -.0037 -.0056 -.0357 -.0720 -.0659 £970 -. 0282 -.020--.0279 . \$970 -. 023t .3780 -.0488 -.0469 -.0476 -.0759 -.0928 -.0329 3780 -. 0569 -.0643 -.0598 2386.5 .3010 .3010 -.1345 -.078 -. 1650 - 1788 -. 1340 -.2645 -.3082 -.3711 -.1048 -.1130 -. P419 .83 -.2662 -.8952 .830 -.2417 -.2902 .2040 -. 1616 -. 1464 -.1575 -.2321 -.3011 -.4505 -.4505 -.5573 -.5574 -1.1126 -.4822 .2040 -1.0845 -1.2855 1.0460 59.21 1.0180 -.2919 -.2342 -.1056 170 .173 -.1404 .9990 -.2809 3249 . 1660 . 1660 .2609 ₩. .4208 .1580 .5616 .9600 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 7145. - .2475 - .1872 - .0897 - .1539 .3269 .2758 .3028 .3029 96190 .1120 .3210 .1520 MACH -.4350 -.3879 -.3475 -.2159 .0700 - 1567 - 1638 - 1438 - 1491 - 1621 -.2070 -.2042 -.1118 -.1843 -.2982 .0700 .2165 .8790 .1504 8.305 .0982 .3682 .8210 . 1919 .0460 3960 .0460 .2329 **F7075** <u>.</u> -.0514 -.0746 -.0245 -.0340 .0340 .0702 . 0230 .0230 .1790 ¥115. 3691 SECTION (1) ORBITER FUSELAGE (1) OPBITER FUSELAGE .0000 .3120 7160. -. 1597 -. 0986 -.0363 5635 .7290 -.0860 .0335 .0566 .0080 .060 -.0090 -.0094 -.0159 .0000 1.0001 .0578 . 1473 .0523 .0628 .6520 0000 ALPHA (2) 20.000 55.000 55.000 55.000 65.000 65.000 65.000 65.000 65.000 65.000 74.000 .000 40.000 70.000 90.000 110.000 120.000 135.000 165.000 180.000 SECTION PHI 140.000 151.000 162.000 165.000 174.000 180.000 A: PHA Ē X/LB K/LB Ē X/LB

DATE 10 FEB 76

(XE8827)

		.5740				4.8432		.5740	. 0233	.0340						
		. 4970	0746			•		.4970	.0143	¥700.	0021 0127 1716	1098	0962	0850		
<u> </u>		.3780	1037			D RN/L		.3780	0150	.0055	0079 0336 1728	1751.	1213	1113		
		.3010	1545			= 2386.0		.3010	0+05	0036	0455 0813 3037	2076	1967	1776		
		25.0	2755			۵.		.2510	0670	0502	1437 1745 2852	4870	3463	3016		
		.2040	-1.3093	1.0460	1525 1525	593.49		.2040	0779	. 095.	0817 1466 2224	5718	-1.2789	-1.5121	1.0460	1622 1268
		.1770		1.0180	1103 1061	# 59		0771.				į	. 0899		1.0180	1019
		.1660	3238	.9990	2878	a		. 1660	0923	0916	.0364 .0364 .0364 	9494	.4510	.2313	0666	
	BLE CP	.1580		.9600	2409 1793 1873 2313 3288 3088	1786	BLE CP	.1580					e e	Rono.	.9600	2670
	NT VARIABLE	.1120	. 1939	.9210	2522 1955 1997 2473 4117 3580 4181	73982 MACH =	NT VARIABLE	.1120	9	0241	. 1564 . 1731 	. 1807		.1327	.9210	2369
8.305	DEPENDENT	.0700	. 1663	.8790	2087 2048 1482 3499 5614 5161	3699 .687 %	CEPENDENT	.0700		01160	2880 2404 2082	. 1413		.0963	.8790	1753 1818
#		.0460	.2260	.8210	2154 1925 0273 0348 1257 1257 .3665	.2983		.0460	0035	32. 22. 22. 23. 23. 23. 23. 23. 23. 23.	. 3256 . 3256 . 3256	.2020		. 1442	.8210	1674
BETA (5)	<u>ب</u> ود	. 0230	.3191	.7790	- 1370 - 1261 - 1218 - 1218 - 0345 - 0171 - 0669	.0990 .1378 .13 ATB	361	. 0230	9789	19.00 10.00		.3270		. 2013	.7790	0000 004 004
090	110PBITER FUSELAGE	.0080	. 4938	.7293	0967 1948 2555 0856	0051 357 86	TE FUSELAGE	CBC0.	2264.		.63.3			.4361	1200	69 20 1
	1 10981 16	. 0000	1.0091	.6520		- 0609 - 0869 - 0869 - 0869 - 0869	1:048:7E	2003.	1.0251					1.0251	0 E E E	0 m m
ALPHA (2)	SECTION (X/LB	PH1 180.000	X/LB	PHI	တိုင္း	SECTION	X/LB	PH1	0000 cg	96.07 96.00 96.00 96.00 96.00		10000000000000000000000000000000000000	186.030	a, 7 x	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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DATE

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

							4. 9 .12		.5740	.0314	.0518										
							•		076¥.	.0307	. 0202	0247	1094	0570	0563	0513					
Ē							FRY		.3780	0003	.0139			0872	0812	0743					
(XEBB27)							2386.0		3010	0263	0022	0896	2825	1739	1593	1443					
							•		85.	0491	0431	1913	3054	4614	3044	2699					
			1.0460				593.49		.2040	0659	0871	1013 1505 2265	2873	6063	-1.2574	-1.4632	1.0460	1565			
THEFT AGE			1.0180				- 593		0771.					6490	.0407	•	1.0180	1027	•		
			0666.	មិ ស	- 196+		o		. 1660	0723	0818 0795	0340 0440 0440	.0691	.4226		.3277	0666.		8	1879	
-140A/B/C/R ORB FUSELAGE		LE CP	.9600	0412 0967 1446	1368 1889 1756	1883	.59608	LE CP	. 1580							.5893	.9600	1.2264 1.2264	0654 1174 1734	1727	
- (84140)		IT VARIABLE	.9210	.0401 0323 0786	- 1435	0760	MACH .	DEPENDENT VARIABLE	.1120		0797	. 0750 . 0753	1737	.1747		191.	.9210	2337	0038 0751 1288	1888 1749	
ESSURE DATA - URIT	-7.887	DEPENDENT	.8790	.0044 .0044 0633	1925 2103	2070	3.863 M	DEPENDE	.0700	0283	0450 0106	1.288	. 1565	.1400		121.	.8790	1821	0104	7	1003
r «			.8210	. 1675 . 3709	.5166 .3739	.2026	•		.0460	.0260	0440. 0990.	41 15. 2243	2465	.2033		.1766	.8210	1672	1136	3383	C/03.
ABOLA IEU P	BETA (1)	IGE	.779¢	0057 .0526 .0901	1310	1.531	BETA (2)	AGE	.0220	.1193	.3109	.3930 .4136	3675	.3092		.2275	.7790	0909	. 0551 . 0551 . 0632	5231.	, F13.
	3.957 BE	TR FUSELAGE	.7290	1467	0876	0147	.961	ER FUSELAGE	.0080	5278		Š	1600.			.4433	. 7290	6313	-, 1 926 -, 1528	0505) 120.
92	# M	1) OPBITER	.6520	2034 1426	2059	0929 0873	3.6	1)ORBITER	. 2000	1.0634						1.0634	.6520	8119.	- 2357 - 2357 - 1659	1442	- C280
DATE 10 FEB	A.PHA (3)	SECTION (X/LB	PHI 70.000 92.000 105.000	110.339 120.000 135.000	150.000 165.000 180.000	ALPHA (3)	SECTION (X/LB	PH1 000	20.000 £3.000	55.030 70.000	120.000 120.000	153.000	152.000 162.000 165.000	163.000 174.000 180.000	X/LB	PH1 .000	40.000 0.000 0.000 0.000	1.0.000 1.0.000 1.0.000	150.000

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				4.9432		5740	.0345	.0566								
				•		0264.	.0378	. 0275	8 ± 10 9 ± 10 9 ± 10	0415	- 0347	·	0373			
				RNAL		.3780	1700.	.0175	0645 0672		. 0550)))				
				2388.0		.3010	0213	0032	1170		1787		1337			
				•		.2510	0475	0527	2583	3528	- 275B	9	2532			
		1.0460		593.49		.2040	0598	0903	1531 2123 3019	4647 6437	, i	15.15.15	-1.4408	1.0'+50	1509 1246	
		1.0180		# 539		.1770					0530 0354		·	1.0180	0961 1639	
		ე666.		ø		. 1660	0611	0722	0888 1090 1240	.3330		+60+.	.3754	. 3930		1929
	LE CP	.9600	1748	.59608	RE CP	. 1580							50/6.	.9500	2056 2026 0879	2031 2138 2036 1616
	DEPENDENT VARIABLE CP	.9210	1539	MACH	DEPENDENT VARIABLE	.1120	,	0595 0380	0193 0008 .0068	11497			.1789	0126	2300 1684 0501 1205	- 2374 - 2347 - 2301
-3.863	DEPENDEN	.8790	0286	.188 m	DEPENDEN	.0700	0233	-, 0340 -, 0385 -	. 04170 . 04170 . 0464	25.55 25.55 25.51			. 1278	.8790	1737 1731 1731 1731 1733 1733	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
•		.8210	.2900			υ9+コ・	.0331	.0367	11197	10/1.			. 1691	.8210	8091.1 8081.1 8080. 8080.	. 1139 . 2435 . 3319 . 4005
BETA (2)	Ĕ	.7790	. 1840 . 1687	BETA (3)	Ä	.0230	: 229	. 1456 . 2445	. 2950 . 3081	.5:03			. 2539	DE77.	0981 0582 0885 0108	
	R FUSELA	.7290	.0375		R FUSELA	.0080	.s+01		. 4212				. +427	06217	58 52 5161 1.91	0318 6 836 6 85 + 0.
3.961	: OPBITER FUSELAGE	.6520	6E 7.0 1	3.981	:: 3981TER FUSELAGE	()	(i)						531011	₽ 3)		# INT: IN M 12 (14) D 6) (14) P (1) (1)
ALPHA (3)	SECTION (X/LB	1 000 1 000 1 000 1 000 1 000	A.Put 7 33 :	SECTION	ei H	(;; (); ()	######################################	trest erent erent erent drest urent		f) e) e	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	•		Same of the second of the seco	373 8418 3

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	#. 9±32		3740	. 5563 . 563			¥.94.X2		M A A
	•		07E#.	.0340 .0118 .0118 .0439 .1543 .1573 .1573			•	5	2010 5010 50308
(£3)	FAN A		.3780	. 0046 0002 0659 0659 0659			FENCE	7	
(XE8827)	- 2386.0		.3019	0248 0260 1343 1491 1467 1427			2386.0	0102	
	•		.2510	0534 0812 2825 3396 3268 3682			Λ	6	
	593.49		. 2040		1.0460	1526 1397	593.49		0847 1142 1534 2395 2970 4201
FUSELAGE	* 59		0771.	1735 1463	1.0180	1036 1086	. 593	1770	
-140A/B/C/R ORB FUSELAGE	σ		. 1660	0713 0849 0868 1968 1716 1923 1277 3519	066ö°	2133 2135	o	1550	0920 1084 1236 1987 2220 2549
-140A/B/	. 59608	BLE CP	.1580	ਹ. ਜ	.9600	2234 1761 1111 1592 2042 2553 2487 1685	.59608	RE CP	
	MACH	NT VARIABLE	1120	0779 0653 0806 0651 0730 .0336	.9210	2341 1743 0890 1580 2069 3037 3732 3036	MACH -	IT VARIABLE	1010 1120 1327 1527 1922
AMES 11-073(0A148)	.237	DEPENDENT	.0700		.8790	1775 1870 1107 2386 3966 3369	8.292 M	DEPENDENT	0613 0854 0731 1143 1332
AME	# #		.0460	0240 0110 0110 0213 0159 0159 0153 0153 0153 0153	.8210	1692 1511. .0051 .0005. .0153 	a	0450	.0087 0162 0572 0725 0819
	BETA (4)	AGE	. 0230	7501. 1013. 1013. 1059. 1059. 1059. 1059. 1059. 1059. 1059. 1059.	0677.	0882 0723 1158 0496 0051 .0520 .1352 .1587 .1587	BETA (5)	4GE . 0230	.0908 .0593 .0593 .0562 .0762
	3.978 8	ER FUSELAGE	.0080	7.412. 25.35. 12.33.	.7290	0296 2318 1558 0648 .0187	.980 BK	1)CPBITER FUSELAG	.0718
		1) ORBI TER	.0000	1.0520	.6520	. 0085 2580 1749 0880 0373 0337	3.9	1) CPBITE	
	ALPHA (3)	SECTION (X/LB	PH1 -000 -000 -000 -000 -000 -000 -000 -0	X/LB	PHI 4G.000 7G.000 105.000 110.000 135.000 156.000 165.000	ALPHA (3)	SECTION C	PH1 - 000 - 20 . 000 - 40 . 000 - 75 . 000 - 76 . 000 - 93 . 000

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

DATE 10 FEB 76

AMES 11-673(0A148) -140A/B/C/R ORB FUSELAGE	
AMES 11-673(0A148)	8.232
	53 =
	BETA
	3.980
	ALPHA (3) = 3.980 BETA (5) = 8.292

ABLE CP .1580 .1660 .1770 .2040	0771. 0591.	cp 1580 .1660 .1770
.0990 *3183		0660. 6288
0022·	•	•
4585.	•	. 1255
0810.1 0666. 0096.	1 0666	1 0666. 0086. 0126.
2305 1683 1317 1752	1	185823442305 .189817491683 .151712081317 .232319331752 .342324862262
-,303; -,303; -,2952 -,303; -,1848		-,3779 -,303; -,3483 -,2958 -,4173 -,303; -,3999 -,1848
.59530 a • 593.1	• AACH • .59590 Q	• 59530 a
OFF CP	DEFENDENT VARIABLE OF	VARIABLE
. 1590 .1660 .1770	. 1650	.1120 .1590 .1650
	4820°- 4820°-	.1061 .0443
	. C867 . C867	1500 - 15
.03755 .03455 .0991		. 1617 . 1526 . 1526 . 1040+
1914.		1614. 8460. 8440
.0192 .3926 .8548	. 3926	. 3926

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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PAGE

(XE8827)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

DATE 10 FEB 76

5740 5740 .0937 .1267 -.1019 -.0817 -. 0629 .4970 -.0734 -.0807 -.2190 .4970 -.1056 .0828 .0811 ž -.0832 -.1056 -.2283 -.0796 3780 -.1155 .0693 -. 1025 3780 -0±0± -.1187 2386.0 -.1208 -.1454 -.3640 -.2064 -. 1528 -.1782 .0199 .3010 .0512 .3010 -. 1801 -.2837 -.2179 -.2392 -.3635 -.3129 . 83.00 -.0056 . 5 .0071 -. 3354 -.4781 -.0131 -.0176 -.0175 -.0855 -.1454 -.3326 -.4652 -.1460 .2040 -1.6448 1.0460 -. 1534 . 2040 -1.6201 -1.3989 1.0460 593.13 1.0180 -.0891 -.0896 .1770 1.0180 .1770 0666. 0666. -.0108 -.0135 -.0125 -.0317 -.0391 .3886 -. 2454 -. 2113 . 1660 3778 .2657 . 1660 .1717 a . 59590 .9600 -.2093 -.1521 -.2106 -.1858 -.1932 9+53 .1580 .9600 .1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2028 -.1294 -.1667 -.1786 -.1634 -.0821 0096 0715 0817 0852 0805 .0965 .9210 .9210 -.2116 -.1231 .0452 -.0281 .1120 .1120 .0645 .1006 HACH -.1411 -.2224 -.2567 -.3025 .8790 -.1418 -.1504 .0512 .0201 -.0493 .0700 .0700 9600. .0645 .0645 .1282 .1733 .1375 .0475 .8790 .0391 857 -7.885 ņ -.1178 -.0974 -.1196 -.0987 .1680 .22.33 .0838 .8210 .1393 .2206 .2206 .2614 .2336 .2108 .1015 .0460 .0460 .0486 .8210 . 1266 ລ BETA (1) -.0355 -.0392 -.0137 -.0361 .0219 . 0230 2554 3055 4636 4413 4062 3764 2916 .7790 . 0230 .0716 .1866 311. .7790 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0312 .0080 .7230 . 0248 -.2103 .6783 .0080 .2833 .2789 .7290 .5041 -.1755 -. 0294 -.0531 7.936 .000 -.1465 -.1145 -.1122 .0793 . 0256 .0000 6520 9905 .0654 .0874 .3051 .3051 1.3256 .6520 .3407 ALPHA (4) ALPHA (4) ±0.000 €0.000 40.000 90.000 105.000 110.000 135.000 155.000 165.000 20.000 20.000 55.000 11.00.000 11.00.000 11.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0 PHI 180.000 888 X/LB E X/LB X/LB Ŧ

DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					4.8429		.5740	£950·	. 1237							
				•	RN/L = L		0.4970	.0880	.0615	0805 0305 1368	0679	0553	0526			
							.3780	.0527	.0455	1097	0842	0732	0685			
					= 2386.0		.3010	.0197	.0217	1533 1698 3131	1693	-, 1553	1398			
					۵		.2510	. 0002	0309	2571 2752 3601	4113	+302+	2743			
		1.0460			593.13		.2040	0088	0.0482	2052 2950 3947	5716	-1.3465	-1.5493	1.0460	-, 1419	
		1.0180			= 59		.:770					0916 1071		1.0180	0870 0970	
		ა666.		. 1840 640 640	o		.1660	0079	0115	1016 1142 0312	.2984	.3538	.3121	.9990		2521 1938
	BLE CP	.9600	0480 1093 1657	1635 2080 1808 1653	.59590	BLE CP	.1580					t : :	* 10.	.9600	2121 1733 0834 1374	1986 2216 2115
	DEPENDENT VARIABLE	.9210	.0080 0670 1167	1897 1932 1877 1544	MACH =	DEPENDENT VARIABLE	.1120	000	.0336	.0040 .0049 .0033	.0872		.1067	.9210	2031 1393 0457 1187	2337 2294 1111
-3.857	DEPENDE	.8790	0044 0460 1252	2655 2750 2699 0587	.182 M	DEPENDE	.0700	.0676	.0857	.0397 .0397 .0397	.0373		.0499	.8790	- 1421 - 1537 - 0658 - 1263	3021 3136 3119
		.8210	.1089 .1498 .2669	. 2043 . 1569 . 1211	3) =		.0460	1413	1698	9181. 1811.	02/20.		. 6839	.8210	11667 0982 .0493 .0730	
BETA (2)	AGE	.7790	090 3 0254 .0251	1547 1950 1956 1954 1941	BETA (3	ASE	.0230	. 2625 2000	004K.	. 2658 . 2658 . 2673	.1702		. 1328	.7790	0329 0148 1250 0403	. 1013 . 1165 . 14741
7.944 8	ER FUSEL	.7290	2528 1919	0927 0004	345 B	ER FUSELAGE	.0050	.6970		.3583			.2850	.7293	. 2359 2841 2021	0578 ntr7
•	1108811	.6520	3468 2609	2433 1024 0755	# 60	11CPBITER	.0000	1.0333					1.0333	.5520	.080. 40878. - 24643.	T. 1597
ALPHA (4)	SECTION (1) ORBITER FUSELAGE	x/LB	70.000 90.000 105.000	150.000 150.000 150.000 165.000	ALFHA (4)	SECTION:	K/L6	1 HT 1	40.000 10.000	20.00.00 00.00.00 00.00.00	14 9. 1400 14 9. 1400		180,000	X/18	T	000000 0000000000000000000000000000000

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) PRESSURE DATA - DAIMB (AMES 11-073-1) AMES 11-073(0A1MB) -140A/B/C/R ORB FUSELAG)

					4.8429		.5740	.0882	.1070							
							.4970	.0857	.0426	1056 0942 0854	0573	0561	6490			
£					RN/L		.3780	. 0447	.0135	1253 1125 1029	0705	0677	0779			
(XE8B27)					2386.0		.3010	.0155	0272	1758 1727 2735	-, 1575	1503	- 148 ₄			
					e.		.2510	0075	+780	2840 2954 3600	3607	2935	2837			
			1.6460		593.13		.2040	0199	0450	2113 2622 3527 4536	5732	-1.3081	-1.5261	1.0460	1422	
'USELAGE			1.0180		- 593		.1770				ć	2058	•	1.0180	0856	
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE			388°.		o		.1660	0183	0342	1523 1618 1765 1129	.2013	3008	. 2926	.9930	6 6 6	- 2072
-140A/B/(RE CP	.9600	1536	.59590	E CP	.1580					ĺ	1567.	.9600	2167 1575 1213 1556	2435 2545 2621 1587
(0A14B)		DEPENDENT VARIABLE	.9210	2478	MACH =	VT VARIABLE	.1120		0135	0839 0586 0625 0150	.0504		.0934	.9210	2091 1458 0993 1648	2953 2819 3262 3182
5 11-073	. 182	DEPENDE	.8790	1548	.239 M	DEPENDENT	.0700	. 0555	.0343	0219 0507 0454 0371	.0065		.0315	.8790	1400 1571 1199 1972	3942 4005 4106 2717
AME			.8210	.4163	÷		.0460	.1362	.1183	.0436 .0193 .0117	.0655		.0636	.8210	1201 0399 0101 0197	.0625 .3406 .3779
	BETA (3)	IGE	0677.	. 1349 . 1498	BETA (4)	1GE	. 0230	.2503	. 2353	1929 1610 1640 1474	1361		5521.	.7790	0287 0147 1597 0785	.0076 .1077 .1362 .1184
		: JORBITER FUSELAGE	.7290	.0135	043 86	IR FUSEL	.0080	.6636		. 1958			8723.	.7290	.0326 3094 2160	11 <i>2</i> 2 0123 .0085
<u>}</u>	* 8.045	: JORBITE	.6520	0667	8	11 ORBITER FUSELAGE	.0000	1.0134	:				1.0134	.6520	.0737 .0311 3714 2661	1453 0670 0660 0793
	ALPHA ! 4]	SEC110N (X/LB	Pt.1 165.000 180.000	ALPHA (4)	SECTION (X/1.8	PH1	20.000	55.000 70.000 90.000	140.000	151.600 162.000 165.000	174.000	81/X	741 . 000 . 000 70 . 000 90 . 000	1.0.000 1.35.000 150.000 155.000

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.0353 .0493 .0820 .0136 .0824 .1728

04.15 0629 0729 0729 0358 0389

> .0922 .1865 .1787 .1540 .1183

.1468 .1720 .2657 .26821 .2090 .1997

22242 2867 3725 3853 3853 3198 2564 0920

3693 4528 5736 5736 2136 2196

20.000 46.600 55.000 76.000 76.000

5468

.7725

9249

-.0898 -.1328 -.5082

-.0938 -.1303 -.4779

-.1182 -.1654 -.5583

-.1804 -.2186 -.4281

5 11-073-1)	
TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1	
TED PRESSURE DAT	
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FIR FUSELAGE DEPENDENT VARIABLE CP OFFENDENT VARIA	FEB 76		TABULATED		PRESSURE DATA	- 0A14	-	-073-					į	PAGE	
1 1 1 1 1 1 1 1 1 1				AME			-140A/B/C	OAB B	FUSELAGE			XEBE	(73		
0230	•		-		.850										
0.800		R FUSEL	AGE		DEPENDEN										
982 - 0308 - 0655 - 0132 - 7510 - 6310 - 6331 - 2071 - 7510 - 61310 - 61359 - 1509 - 15099 3910 - 0308 - 0308 - 0377 - 0002 - 0909 - 01124 - 01133 - 01133 - 01124 - 01134 - 01135 - 01134 - 01135 - 01134 - 01135 - 01134 - 01135 - 01134 - 01135 - 01134 - 01134 - 01135 - 01134 -		.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	85.0	.3010	.3780	.4970	5750
			.0482	0308	0625	.0132		.3696		4832 7610	6310	2937	2021	2074	
7790								.¥10		1.5814	4132		1599	•	
7790 6210		.1065		.05	0737	.0002	.489B	.1124	•	1.9508	3247	1859	1232	1342	
1.589058009691747183407121113		.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180						
0.095	. 1396 . 1805 4546 3440	. 2853 2060	.0290 .0589 6738 0065	0580 0308 .158* .2153		1747 0749 .0595 0199	1834 1679 0109 0796			1410					
DEPENDENT VARIABLE CP 10230	4619 2029 1882 1744	0304	. 00.99 . 04.90 . 04.83 . 04.83 . 04.83 . 05.83	.5276 0779 0130		1849 2094 1706 0822	1677 2371 1922 1833	2235							
DEPENDENT VARIABLE CP 0230	•		-	3	.836		.59646	o		.33					. 9458
. 4077 . 2528 . 1701		ER FUSEL	AGE		DEPENDEN										
.4977 .2856 .1761 .1000 .0675 .0589 .0589 .0698 .1050 .11472		.0080	. 0230	ð	.0700	.1120	.1580	. 1660	.:770	.2040	500	.3010	.3780	.+970	.5740
. 515 2836		.9106	4007	8528	170			.0587		.0486 0030	. 0548	8690.	.1050	.1472	.1555
75.5 - 2.501 - 1.537 - 1.536 - 2.391 - 1.538 - 1.337 - 1.536 - 2.391 - 1.538 - 1.337 - 1.536 - 2.391 - 1.538 - 1.537 - 1.536 - 1.537 - 1.536 - 1.537 - 1.536 - 1.537 - 1.536 - 1.537 - 1.536 - 1.536 - 1.537 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5393 - 1.5406 - 1.5			515:	. 3274 . 3274 . 3274	. 2238	384		.0851		.0422	.0441	.0878	.1181	.1429	.2012
00500444 .0291 .34347751529223781380003500350925130513603542190519		.4232	3736	.2143 .2143 .1615	. 1097 . 1136 1199	.0520 .0336		0387 0542 .0041			2391 2579 4181	1638 1936 4793		1194 1535 3613	
.33171.5406354219051196			96+₽.	8	+++0	. 0291		· 3年3年		5230	5292	2378	1380	1563	
							1 863.	.3317		-1.5406	3542	1905	1196	1123	

(XE8827)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

-3.836

BETA (2) =

ALPHA (5) * 11.929

1)OPBITER FUSELAGE .0000 .0080 .	. 9230	.0460	DEPENDENT	IT VARIABLE	3LE CP . 1580	.1560	.1770	.2040	.2510	.3010	.3780	.4970	.5740
0149		0146	0435	.0318		.2060	1	-1.8311	2972	1523	0800	0854	
Ŀ.	0677	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
. 0325 . 0525 . 1359 0619		0825 0318 .0807 .1338	0964 1166 0122 0495 1248	1710 0881 .0077 0625	1.1506 1.1606 1.1606 1.1636	ė.	0703	1413					
.0731 .05.37 .05.16	es in term to	1691 11:59 87+3 8143	1.2004 1.2004 1.2005 1.2005	2051 2051 1911 1487	7.1685 7.2163 7.1816	1.1977							
5ETA (m		. 181. AM	TOTAL TOTAL	.5936	σ	#6C #	594.33	·	2386.5	RNAL	4	4.8459
FUSELAGE			DEPENDEN	DEPENDENT VARIABLE	SLE CP								
. 2233		09-0	.0700	.1120	.1590	.1660	0771.	.2040	.2510	.3010	.3780	0764.	5740
0 0 1	r> 6	ម្រា ម		c C		4490.		.0516	. 0558	0770.	. 1095	. 1468	.1559
1.00 U		+ 13 tf		100 m		1.0000 1.00000 1.000000 1.000000 1.00000000		0210	0270	.0354	.C743	.1059	.1811
		រយួយ យា លោក អភ្ មួយ ក្រុ				0 # 0 9 0 # 0 0 0 0 0 0 0 0 0 0 0 0 0 0		8251 3337 4290	2830 2937 4057	2040 2176 4013	1669 1642 2453	1571 :501 2861	
.5539		đị C	ნ0+0.+	.6316		.2736		5658 7946	4465	1985	1123	1089	
						.2997	1567	-1.4556	3193	1602	1.0771	0754	
.919.	•	- 3035	0292	.0475	# 1.G. # .	.2541	•	-1.6643	2809	1457	0747	0701	
.7790	g	37.26	.8733	0126	.9600	.9930	1.0180	1.0460					
88	35 35 1	0507	0947	1691	1859		0598	1133					

TABULATED PRESSUPE DATA - DAIYB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

14970 -.1911 -.1564 -.1358 . 1438 .0753 -.0731 -.0795 -.0873 -.1968 -.1714 -.1652 3780 . 1043 .0240 -.0834 -.0744 -.0334 -. 1497 .3010 .0661 -.0314 -. 1526 -. 1657 .25.0 -.3831 1110· -.1113 -.3012 -.2984 .2040 -1.4212 -1.75 -. 1411 1.0460 .1770 1.0183 -.0707 -. 2333 -. 2529 1.0180 ე666. -.2590 -.1903 - 1892 - 1766 - 1813 - 1128 . 25¥8 . 1660 0666 - 2937 .1676 .2396 -. 0846 -. 1243 -. 1851 -.1910 -.1365 -.1158 -.1526 -.2203 .59646 . 1580 .4112 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0552 -.1133 -.1652 .1120 .9210 .2603 .2553. .2503 .0372 .9210 MACH -.0831 -.1392 -.222 -.1008 -.1315 -.1392 -.2232 -.3313 .0700 .8790 .8790 -.0618 -.0421 4.251 .8210 1700 1183 +674 -.0102 .0142 .0483 .0941 -.0517 -.0407 -.0445 -.0624 -.0285 .8210 .0460 -.0135 BETA (3) -.1793 -.0853 .0040 64-20 .730 .1826 .1265 .1154 .0700 . 0230 0110 .7790 SECTION (1) OPBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.3715 . 0080 . 7290 -. 3889 -. 2924 -.1121 .1183 .0828 . 0959 -.0038 .7290 -.0744 7957 -.1638 -.0432 11.930 11.930 -.5013 -. 1484 -. 0951 -. 0875 .0000 .6520 -.2146 9+65 9+65 .6520 K.PHA C SJ LPHA (5) 50.000 155.000 155.000 155.000 155.000 155.000 155.000 165.000 165.000

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				4.8458		.5740	. 1416	. 1293											
				•		0.4970	.1316	.0422	2:26 1559 1018	0796	1064		1372						
				S RN/L		.3780	920.	0331	2135	0747	0925		1379						
				- 2386.5		.3010	.0611	1144	2513	1539	1563		1907						
				۵		.2510	.0318	2098	-,3455	3339	3018		3202						
		1.0460		594.33		.2040	.0304	1885	- 3164 - 3164 - 3938	6323	-1.3767		-1.7751	1.0460	1293				
		1.0180		* 59		.1770				!	3587			1.0180	0702				
		0666.		σ		.1660	.0435	- 1171	2159 2265 1880	.0610		. 1847	.1559	.9990		1	3193 2431		
	BLE CP	.9600	1555	.59546	BLE CP	.1580						2500		.9500	1960	1415 1750 2504	3048	3016	1733
	DEPENDENT VARIABLE	.9210	3368	MACH .	NT VARIABLE	.1120	i c	0776	2334 1334 1312	0371		٠	0033	.9210	1715	1374 1787 2719	3822	3478 4182	4067
4.251	DEPENDE	.8790	2909	8.317 M	DEPENDENT	.0700	.1269	0158	- 1464 - 1613 - 1357	1143			0743	.8790	0948 1349	1867 2651 4252	5244	5185 - 5348	9454
		.8210	.4065			.0460	. 2260	1623.	0969 1073 1033	0558			0383	.8210	+.0614 0510	1257	.0517	60°74.	716
BETA (4)	AGE	.7790	.1090 .1016	BETA (5)	AGE	.0230	98. 0.364	1843 1843	. 0029 . 0006 . 0006	0322			0228	0677.	. C216 5240	2092 2092 1526	1043	.05427 .0513	.0105
	ER FUSELAGE	.7290	0324	. 920	IR FUSEL	.0080	.7571		0628				5610.	.7290	.0930	1.3314 1.3314	2358	0746	7501
= 11.930	1) ORBITER	.6520	0973		11088176	. 0000	.9958						.8868	.6520	1371	-,4759	2193	5.17	151a
ALPHA (5)	SECTION (X/LB	PH1 165.000 180.000	ALFIM (5)	SECTION (1) ORBITER FUSELAGE	X:LB	Ι, ι	10 ccc	44 44 44 44 44 44 44 44 44 44 44 44 44	140.000	151,000 152,000 165,000	169.000 141.000	180.000	X/LB	7H9 2003 0000	70.000 30.000 100.000	110 000	186,038 130,138	165.030 140.631

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	
TABULATED PR	•
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PAGE 415	(XE8828) (05 AUG 75)	PARAMETRIC DATA	3 = -10.000 SPOBPK = 35.000 3 16.300 L-ELVN = 10.000 4 = .000 MACH = 1.400	= 441.59 RN/L = 2.9214		.2510 .3010 .3780 .4970 .5740	.00710234037305200584	.17221443086109810660	192409920571 .0162 - 1708 - 17720950 .0123	33491280 -	.2950171610890508	.2509168812000829	2861145212540982			
			RUDDER BOFLAP R-ELVN	599.58 P		.2040	•	ı	.1363	•	- 08860 -	- 1491 -	2502 -	1.0460	.0977	
•	ORB FUSELAGE			29		0771.					ě	. 8009		1.0180	. 1397 . 1397	
AMES 11-073-1	2/R ORB F			o		. 1660	0527	0979	. 2230 . 2230 . 2230	.5651	6866.	1.0592	9949	0666.	1829 1476	
-	-140A/B/C/R			1.3927	BLE CP	.1580							1.0922	9600	2553 2211 1079 0286 0550 0529 231	
1 - 0A148			222	MACH .	IT VARIABLE	.1120	ļ	0751 0512	. 21.98 . 21.98	. 4683 2	.5566		. 5568	.9210		
URE DATA	11-073(0A14B)		75.0000 IN.	-3.855 M	DEPENDENT	.0700	.0071	.0643	.315+	. 5596	4799		.4683	.8790	- 1621 - 1756 - 1756 - 1194 - 0245 - 1088 - 1710	
TABULATED PRESSURE	AMES		1076.6800 .0000 375.0000			.0460	.0813	. 1267 . 1267	0415. 14118	.6078	.6368		.5970	.8210	7.0937 - 1060 - 1977 - 1947 - 2334 - 2714 - 2714	.4.23
TABULAT	,	Æ	XMRP YMRP ZMRP	BETA (1)	IGE	.0230	.2044	% 8% 8% 8% 8% 8% 8%	3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	. 8089	.7913		.7248	.779ú	5240 0770 0605 06035 1705 8278 1704 6272	.3791
		REFERENCE DATA	50.FT. IN. IN.		110RBITER FUSELAGE	.0380	.6734		į	.9391			1.0221	.7293		.0163
FEB 76		REFER	2690.0000 474.8000 936.0680 0300	= -3.978		. 0000	1.4736						1.4736	.6520	0228 0671 .0801 .0902 .0351	6212
DATE 10 FEE			SPEF = 28 LREF = 1 BREF = 5 SCALE =	ALPHA (1)	SECTION (X/LB	PH! .000	20.030 40.030	55.963 70.903	90.000	140.000	151.000 162.030 165.030 163.000	174.000 180.000	X/LB	PHI . 000 70.000 90.000 90.000 110.000 120.000 135.000 159.000	183.030

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

-.0540 -. 0445 -.0536 .0000 -.0057 -.0512 .4970 -.0729 -.0760 A Z -.1086 -.1315 -.1783 .3780 -. 3652 -.0441 - 1414 -. 12th -.1674 -.2428 -.4078 .3010 -.012¥ -.1079 - 1858 -. 1471 -. 2445 -. 2405 -. 1864 .2510 -.2802 -.0027 -.1188 -.3029 .2040 -.0306 -.0458 -.1150 .0303 .0748 -.0131 -.0736 -. 1549 599.58 AMES 11-0/3(0A148) -140A/B/C/R ORB FUSELAGE .1770 .6558 -.0538 -.0497 -.0509 .0732 .0735 .1550 .4612 1.0351 O .1580 .185 MACH = 1.3927 DEPENDENT VARIABLE CP . 1 120 -.0505 -.0505 .0420 .1305 .1630 .0700 .0157 .0098 .0535 .1679 .2239 .2345 .3570 .0842 .0936 .1146 .2354 .3060 .3925 .5236 .0460 6095 ິດ 2437 3878 5062 5794 6423 .0230 7448 BETA SECTION (1) OPBITER FUSELAGE .0080 .6723 .7969 -3.971 1.4759 .0000 ALPHA (1) 70.000 90.000 70.000 120.000 150.000 151.000 155.000 155.000 155.000 174.000 186.000

-.0781

-.1103

-. 2980

-. 2927

1.0269 9990

1.0906

.5612 .9210

.4891 .8790

.6078

.7375 .7790

1.0073

.8210

.7290

.6550

X/LB

-.0156 .0090

1.0460

1.0180

.9600

.2086 .0714

.1911 .1277

-.2560 -.2049 -.1325 -.0567

- .2052 - .1248 .0054 .0038 - .0525

-.1618 -.1629 .1081 .0628 -.0195

-.085.3 -.09.3 -.2305 -.1885

-.2083

-.1217 -.0172 -.3032

-.1105 .0168 .0393 .1907

.0242 .0773 .1677

.1235 .3915 .4146

. 0562 .0453

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1.58 599.58 - 1.3927 DEPENDENT VARIABLE CP MACH 4.270 **6364**. SECTION (1:0RBITER FUSELAGE .0273 -3.978 8000. 6000. ALFIHA (1)

-.0619 5740 2.82.7 -.0115 -.0195 -.0802 4970 -.0659 -.0731 -.1395 .3780 -.0549 -.0365 -.2242 -.3020 -.4566 .3010 -.07-5 -.0766 -.2904 -.3046 -.2551 -.0065 .850 -.0453 -.0360 -.0813 -.0004 -.1100 .2040 .1770 -.0598 -.0520 -.0405 -.0405 .0394 .1183 . 1660 . 1580 .1120 .0490 .0490 .0098 .0543 .0720 .0700 0181 0020 0020 0311 1355 1355 1341 .3460 .0683 .0760 .0864 .1584 .2114 .2780 .2780 .0230 .2134 .2134 .3206 .4124 .4744 .5333 .6573 .0900 6485 . assa 1.4608 25.000 25.000 25.000 25.000 20.000 20.000

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) DATE 10 FEB 76

PAGE

5750 - 0550 - 0550 - 0570 £970 £970 -. 0900 - 59G -. 1222 - 10h -.0529 -.0569 -.1459 3780 .3780 -.0228 -. 1738 -.1412 -. 1235 -. 1556 -.0016 -. 1504 (XE8828) 8. I \$ -.0760 -.1553 -.3201 .3010 -.1327 3010 -. 1781 .0116 -.2248 -.0560 -.1526 -.2469 . 85 6 -.1654 -.1529 -.1182 -.3069 -.3169 -.2877 330 -. T. 22 -.0557 -.3471 1600. -.2047 -.2165 -. 1692 -.1988 .2040 -.2650 . 1949 . 1026 .2040 1.0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 1.0180 13 .5447 .6614 .1828 .1770 .7212 .725 -.0170 -.0041 -.0043 .1597 .2348 .3032 .5666 -. 2416 -. 2445 . 1660 8443 .9827 1.0106 .9990 9718 . 1660 ø 1.0373 -.2592 -.2043 -.1485 -.0970 -.2898 -.1004 -.0632 -.3309 .9600 085 . 1580 1.393 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2056 -.1262 -.0173 -.0543 -.1927 -.0581 .0130 .1120 .5487 .9210 .4590 .1120 .0013 .0455 .1618 .2223 .2529 .3656 3840 ₹ -.1619 -.1652 .0910 .0355 -.0565 .0700 .±. .0700 .8790 .0769 .0816 .1555 .2931 .3298 .3355 3543 -3.876 4.270 -.0908 -.0780 -.2306 -.2106 .0460 71175. 8210 1638 1879 2399 3788 4793 5456 6091 5401 -.0423 -.0336 .0111 .1445 .2648 .0230 .6849 7332 .1790 2695 37449 3542 3700 3804 .0230 3167 3653 5326 6464 6464 7310 6989 BETA (1) ORBITER FUSELAGE (1) ORBITER FUSELAGE .0080 .0080 -.0142 -.0224 .0114 .0272 7116 9863 0453 .0228 . 7290 HBT. -3.978 .0000 -.0355 -.0191 .0456 .0577 -.0080 -.0168 -.0212 .0000 .6520 8253 1.4802 .4608 ALPHA (2) 90.05 90.05 90.05 90.05 90.05 90.05 90.05 90.05 90.05 SECTION PHI 140.000 151.000 162.000 165.000 165.000 174.000 180.000 SECT 10N

1.0233

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	76
AMES 1	-3.876
	BETA (1) .
	069
	ALPHA (2) .

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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	5740					2.9212		57+0	.0271	. 0212						
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DEPENDENT VARIABLE	.1120	.3788	.9210	1528 0621 0208 0212 0876	1137 0246 .1173 .2251	MACH =	IT VARIABLE	.1120	ā	.0336	1.185	.3568		.3823	.9210	ij
DEPENDE	.0700	.3505	.8790	1014 1194 .0649 .0266 0539	.0364 .0364 .3989	.182 MA	DEPENDENT	.0700	7090.	.1373	. 2335. 1441. 5335.	.3365		.3714	.8790	
	.0460	.5084	.8210	0375 0420 .0441 .1248	.3326 .3326 .3276	u		. 3460	.1653	207		.5239		.5107	.8210	
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1) OPB1 TE	. 0000	1.4802	.6520	0055 0091 .0135 .0+06	0203 0293 0283	0 =	110PBITER	.0000	1.4832					1.4832	.6520	
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							٥		900	0035	003€	2579 2706 2701	3566	3651	3381				
	Lil			1.0460			600.11		.2040	6183	0238 JAJA	. 0353 0355	1959 2472	2153	3186	1.0460	2413	.1476	
~ I	FUSELAGE			1.0180			9	İ	.1770				.5334	. 5373		1.0180	.2460	.2120	
5 11-073-1	/C/R 0RB			ე666 .		2302 2302	o		. 1660	27.0.	0009	.1055 .1524 .3643	.8218	.9456	5476.	.9990			2890 2890
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	AMES 11-07	. 182	DEPENDENT	.8790	.0255 0207 1212	.0042 .0785 .1125	.247	DEPENDENT	.0700	. 0944 . 0678	. 1025 . 1527	. 1579 . 1489 . 2277	.3091		.3777	.8790	1009	1061 0002 0609	0753 0014 .0819
IULATED PRESSURE	¥	ج (۶		.8210	.0995 .0995	.1995 .3360 .3532	3) = 4		.0460	.1503	. 1659 . 2098	. 3907.	.4893		5135	.8210		0.00. 0.00. 0.00. 0.00.	.0575 .2835 .2955
TABUL		BETA C	-AGE	.7790	1232 .0244 .1575	.2689 .2638 .2939 .3132	BETA (3	AGE	. 0230	.3259 .3254	. 3972 . 4572	. 585. 5.52. 5713.	.5928		÷010.	.795		0941 0391 771	.2854 .2854 .3020
		.045	'ER FUSELAGE	.7290	097a 04:3	.0061	.049 B	ER FUSELAGE	. 5083	. 7826		.6223			. 8535	. 7293	.0164	1182 0615	. 0265
EB 76			110ABITER	.6520	0328 .0259	0035 0035 0099	i .	1.10POLTER	. 0000	1.4729					1.4728	.6520	0214 CR10		53:0.
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	4.4				1.0460			288.57		.2040	.0314	710.	1714	. 1844	1037	- 1 <u>29</u>	2472		3480	1.0460		3340	2596		,		
~	OA/6/C.T. DAB FUSELAGE			,	1.5180			6 0 1		1770						.7026	-		•	1.0180		.3536	.3574				
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43 (AMES	•		,	•	₹ *.	•	4	• .	ĝ									.9504		.9600		. 1235	1691 1620	1396		0902	. 2580
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SSURE DA	ES 11-07	4.247	DEPENDENT	8790		. 7486 7486	-3.879 H	DEPENDENT	.0700		1517	2530	433 5	3301	.2747		-	į	e e	.8790	į	. 0348	0226			0224	.2785
	1			.8210		.3203			.0460		.2616 .2859	3468	0544.	.4589 .4704	7444.				77	.8210		0 / Z				. 2305 . 2345	.2737
TABULATED		-	-AGE.	.7790	7,802	3118	BETA (1)	AGE	. 0230		.4347 .4765	.6215	. 6963	.6973 .6593	.5677			0.64		08//	128	.059	2017	-109+	. 1965	. 2263 . 2263	. 2243 . 2243
	090	•	1) ORBITER FUSELAGE	. 7290		. 0235	3.888 B	ER FUSEL	. 0080		.9197		,	.8715				.7615			Onto O		- 1550 -		.1057	+000.	.0524
EB 76				.6520	0200	0303	#	110RBITER FUSELAGE	.0000		1.4674							1.4674	9633	3	.0362	9+50	0518 0218		- 2360 -	0496 0496	
DATE 10 FEB	ALPHA (2)		SECTION C	X/LB	PH1 165.000	.80.000	ALPHA (3)	SECTION (X/LB	Æ	. 000 20.000 20.000	55.000	70.000	120.000 140.000	150.000	162.000	169,000		X/LB		000			105.000 110.000	120.000	150.000	

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	ê,	RN/L		.3780	. 0522	-0±3±	1002 1481 2004	1755	1914	1933				1	.3780	. 0392 . 0392 . 1513 . 1723
	(XE8828)	442.08		.3010	.0527	.0340	1061 1763 3700	-, 2939	2573	2155			442.06		3010	.0241.
		a.		.8310	.0281	. 0645	1831 1909 1975	4000	-, 3659	3966			Q.		0189.	. 0623 . 0623 . 2197 . 2739
				.2040	.0347	.0208	1521 1621 1057	0036	2467	3086	1.0460	8.50 8.45 8.45 8.45 8.45 8.45 8.45 8.45 8.45	599.57		.8040	. 00266 . 0013 . 0037 . 1022 . 0273 . 0086
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•)A148)	* *	T VARIABLE	.1120		. 1053	1380 1462 1775	.2723		.2815	.9210		MACH =	IT VARIABLE	.1120	. 0760 . 0765 . 0695 . 0726 . 0695
PRESSURE DATA	AMES 11-073(0A148)	.179 MACH	DEPENDENT	.0700	1727	. 1633	288 24.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	.2518		.2737	.8790		. 24.	DEPENDENT	.0700	1465 1465 1774 1898 1696 1573 1900
	AMES			.0460	5604	3027	3353	.4337		.4155	.8210				.0460	625. 625. 625. 605. 7560. 7560. 7560. 7560.
TABULATED		TA (2)	H	.0230	14.387	0.40.4°	. 5862 . 5909 . 5994 . 5994	.5377		.4923	.7790		BETA (3)	3	. 0230	4.323 4.138 4.656 4.834 4.834 4.834 4.989
		32 BETA	R FUSELAGE	0800	9		.7323			147.	.7290	.0614 1795 1229 0455	!	R FUSEL	.0080	. 5837
76		3.892	1 3 ORB I TER	.0000	1,500					6694.1	.6520	. 0267 . 0567 . 0652 0217 0223	3.896	11 ORBITER FUSELAGE	0000	1.4579
DATE 10 FEB 76	!	ALPHA (3)	SECTION (X/LB			55.000 70.000 90.000	150.000	151.000 162.000 165.000	159.000 174.000 180.000	X/LB	PH: 42.000 105	5	SECTION (X/LB	PHI - 900 - 900 - 50 000 - 50 000 - 90 000 - 90 000 - 90 000 - 90 000

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PAGE 4		0264	.0960	.0733	0872				•		.w970	0795 0755 1095 1353	1264
=			•	- 2087 -	2006 -						3780	. 1046 . 1048 309 	2178 -
(8 <u>288</u> 3)		0192		.2318	2516				442.30		. 0:05	. 1144	3829
			•	4082	3846				•		. 0185	0819 1263 1061 1144 1229	4357
		t ac	•		.3670 -	.0460	.3297 .2105		37 P		. 2040	.0838 .0938 .0904 .1346 .2016	
-1) FUSELAGE		17.		. 6073 . 6073	1	. 0310.	.3410 .2947		- 599.57		0771.		. 7167 . 7189
-673-		200		9006	.9318	. 9990	ŧ	3697	G		. 1660	1083 1701 1701 1986 1985 1985	.8837
8 (AMES 11:		က ရှိ			₹689. 1	.9600	1402 1121 2202 1819 2233	3394 1779 1476 3515	.3916	E CP	.1580		
3		VARIABLE	.2217		. 2699	.9210	0778 0003 1412 1427	. 2503 . 1452 . 0795 . 0179	•	VARIABLE	.1120	.1564 .230 .230 .2182 .2182	.2078
RE DATA - 0A1 11-073(0A148)	1 49.	DEPENDENT			.2743	.8790	0311 0342 0696 1458	0991 0682 0001	70 MACH	DEPENDENT	.0700	.2542 .3368 .3368 .3797 .3174	.2120
PRESSU	n (ם מ			.4288	.8210	.0310 - .0521 - .0273 - .0217 -	.2188 - .2130 - .2635	-3.870	8	.0460	3731 3960 4495 4792 4518 3835	.3278
TABULATED	€- -	פר			.4925	0677.	. 1931 - 1931 - 1931 - 0270	.1514 .2212 .2313 .2312	=	4.4	.02.50	.5528 .7039 .7195 .6584 .5731	.4539
	S BETA	FUSELAGE			7235	7290	. 1911	.0249	BETA	FUSELAGE	0000	.0381	·
87	3.896	1 ORBITER			.4579	.6520	. 0181 . 0480 . 0648 . 0133		7.940	ORBITER	0000	.4347	
10 168	ñ	8	000	152.000 162.000 165.000	_		999999		. (+) W	SECTION (1)		000000000000000000000000000000000000000	00000
DATE	A. PHA	SEC	150.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 18	X/LB	# . 65 8 8 5 5 5 6 8 5 5 5 5 5 5 5 5 5 5 5	225000 255000	ALPHA	250	X/LB	# . 65.65.65.65.65.65.65.65.65.65.65.65.65.6	1822 1823 1833 1833 1833 1833 1833 1833

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DATE 10 FEB	B 76		TABULAT	TEO PRES	SURE DAT	A - 0A14	TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1	11-073-1	_					PAGE	423
				AME	AMES 11-073(0A148)		-140A/B/C/R ORB FUSELAGE	:/R ORB F	USELAGE			(XE8858)	(82		
K.PHA (4)		7.9±0 BI	BETA (1)		-3.870						•				
SECTION (1108611	11 ORBITER FUSELAGE	AGE		DCPENDE	DEPENDENT VARIABLE	BLE CP								
(/LB	.0000	.0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	3010	.3780	.4970	.5740
PH1 180.000	1.4347	.6189	.3597	.3186	.1814	. 185¥		.8642		3832	4190	2730	2156	0688	
(N.B	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460	•				
PHI .000 70.000 90.000	. 0972 . 1343 1330 0960	. 1149 - 2404 - 1955	.1293 .1496 2799 2382	. 10956 . 1077 2235 0345	. 0385 . 0167 1359 1378	0146 .0982 1341 1980	0311 0429 1691 2138	. (.4710	.3118					
125.000 150.000 165.000	1814 0869 0615 0487	1743	.0630 .0630 .0760	.0655 .1235 .1250 .3383	0627 0490 .0380	1998 1319 0015	2408 1228 0949 2920	666 666 676 676 676 676 676 676 676 676							
LPHA (4)	- 7.9	7.946 BK	BETA (2)		.176 M	MACH .	1.3916	ø	- 599.57		•	. 442.30	RN/L		2.9184
SECTION (1) ORBITE	DORBITER FUSELAGE	S E		DEPENDENT	NT VARIABLE	BLE CP								
พร	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	930	.3010	.3780	.4970	.5740
E. 000	1.4409	 	.5566	.3789	9095 8095 8675	ğ		041		# <u>\$66</u> 0.	.0729	.0786	.1026	.0830	.0789
-000 -000 -000 -000 -000 -000 -000 -00			.6277		2000 2000 2000 2000	1793		3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		9636	.0987	.1012	9760.	.0639	.0805
70.000 90.000 120.000		.6862	80 80 80 80 80 80 80 80 80 80 80 80 80 8	2. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	2358 2358 2355 2131	1375		1336 1336 14620		9240	1487 1657 1867	08% 1257 3585	0950 1396 3358	1569 1702 1742	
150.000			.4258	.3344	. 1843	. 1938		1467.		1219	4388	- 3+E0 ·	1875	0740	
165.000 165.000 169.000								86.88	8199	- 5860	4039	2943	2012	0523	
180.000	1.4409	.6020	.3713	.3270	. 1938	. 1924		.88 14	•	4194	4362	2529	2107	0469	
1.B	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666	1.0180.1	1.0460		٠.			
PHI .000 40.000	. 168 . 1 168	. 1220	\$ 100 100 100 100 100 100 100 100 100 100	.1139	.0478 .0383	0052	0479		. +585 . +093	.2872					

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DATE 10 FI	FEB 76		TABULATED		PRESSURE DATA - DATHB	A - 0A11	HB C AMES	(AMES 11-073-1	1.)					PAGE	ř.
				34	AMES 11-07310A148)	10A14B)	-140A/B/C/R	C/R ORB	ORB FUSELAGE			(XEBBEB)	. (32		
ALPHA (4)		7.946 E	BETA (2	e) =	971.										
SECTION	(1) ORBITER	TER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	WELE CP								
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	3880	1.0180	1.0460					
PH] 70.000 90.000	1382 6783	2511	2727 2316 0448	1063 0183 .0487	1559 1966 2309	1658 2127 3031	2188 2108 2871	ļ							
120.000 135.000 150.000 165.000	0725 0417 0349	0893 0459 0212	.0905 .0888 .0902 .0966 .151	.0412 .1445 .3683	0879 0267 .0320	2151 1308 0613	2832 1767 1219 3138	- 3393 - 3393							
ALPHA (4)	•	7.949 B	BETA (3)		4.238 M	MACH	1.3916	o	- 599	599.57	•	448.30	BY/L	•	2.9184
SECTION (1 1 ORBITER	IER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
81/X	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	8	.3010	3780	0784.	5740
PH1 .000 .20.000	1.4286	1.0307	.5+85 5285	3773	.2673 3155	<u> </u>		1110		.0818	.0733	9690	. 1066	Ë	.0740
40.000 55.000			5319	3376	2463	1288		1027		92.0	.0577	1490.	.0858	.0376	.0556
70.000 90.000 120.000		.5383	.4728 .4681 .4398	.2373 .2373 .5485	.1500 .1500 .1556	.0626 .0626 .0851		.0624 .3777		.0946 .0736 .0211	1867 2144 2595	1364 1787 4021	- 1475 - 1903 - 2325	2009 1592 1053	•
150.000			.3882	.3135	.1396	.1568		.7337		0938	17##1-	3365	1853	0615	
162.000 165.000 169.000 17*.000							COL	8. 8.	282	2997	4385	2675	2155	0608	
180.000	1.4286	.5780	.3701	.3397	.1932	.1818		.8897	Ť	4047	4159	2772	2137	0766	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	9880	1.0160	1.0460					
PMI 000 000 000 000 000 000 000 000	. 1026 - 1274 - 1665	. 1253 2414 1755	.1366 .1663 2672 1513	. 1082 . 1272 - 1018 - 0354	.0430 .0404 1478 2208	0098 .0691 1739 2087	0631 0221 2587 1991		.3808	.4144					
120.000 135.000 150.000	0371	0644	.1307 .1307	0738 .2221 .2943	1322 0801 0482	2746 1765 1307	3645 2130 1880	3570 403:							

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	ê.					FRY		.37E0	*! *! .	.1766	0210		2882 -	- 5715	- 2075			
	(XE8828)					442.53		.3010	.1211	.1782		3034	. 4298	. 3638	- 2949			
					•			.2510	.1387	.1708	1002		4741	4380	4410			
				1.0460		599.66		.2040	±01:	1557	. 25. 25. 3. 3. 3. 3. 3.		0797	. 3343	4113	1.0460	. 3399 885	
-	FUSELAGE			1.0180		90 *		.1770					6671	.6830		1.0180	9083	
11-073-	C/R ORB			.9990		o		. 1660	1828	1 4 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	2681 8981 8981	.4286	.8767	9.	.7959	.9990	2310 3310	
B (AMES	-140A/B/C/R ORB		BLE CP	.9600	3465	1.3913	BLE CP	.1580							140	.9600		
- 0414			T YARIA	.9210	0652	MACH	T VARIA	.1120	i	¥2.	.2316 .2316	1574	1831		.1192	.9210	. 1933 - 1933 - 1933 - 1933 - 1208 - 12317 - 1398 - 1398	
TABLLATED PRESSURE DATA - DAIWB (AMES 11-073-1	ES 11-073(0A148)	4.238	DEPENDENT YARIABLE CP	.8790	. 1785	3.856 MA	DEPENDENT VARIABLE	.0700	.3527	. 4223	3357	.1792	. 1401		.1146	.8790	851.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
TED PRESS	AMES			.8210	.2831	•		.0460	9984	25 4 7 4 C	4517 4517	3063	.2181		.224S	.8210	1848 1988 1988 1988 1988 1988 1988 1988	
TABULA		BETA (3)	AGE	.7790	35 25 26 26 27 27	BETA (1)	AGE	.0230	.6700	7863	5.7.5 5.7.7.5 5.0.0	4907	.3466		330	.7790	2.197 2.2520 2.2520 2.2567 2.2567 2.0323 2.0328 3.0	
		7.949 B	1) ORBITER FUSELAGE	.7290	0148		11 ORBITER FUSELAGE	. 0080	1.1455		7655				. 4780	.7290	. 1987 1962 1962 1963	
8 76		•	1.0AB11	.6520	0372 0506	= 11.863		.0000	1.3818						1.3818	.6520	1761 2225 1814 1816 1819 1819 1819 1818 1818	
DATE 10 FEB 76		ALPHA (4)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (X/LB	PH1 .000	29.000 29.000 19.000	20.000 20.000 000 000	120.000	150.000	165.000 165.000 165.000	17.000	X/LB	741 70.000 90.000 1105.000 135.000 165.000 186.000	

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TABULATED PRESSURE DATA AMES 11-073(0	ABULATED PRESSURE DATA AMES 11-073(C	PRESSURE DATA AMES 11-07310	URE DATA - 0	0 - 0	.	~ }	-673 ORB	-1) FUSELAGE				&	PAGE	924
	BETA	(S) Y		.179 MACH	-	71	o	= 599.68		•	W2.53	RNA		2.9180
1) ORBITER FUS	FUSELAGE	W	_	DEPENDENT	T VARIABLE	XE CP								
.0080		.0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	989	.3010	.3780	.4970	57.0
1.1511		.6774	7164.	.3651			.1888		.1632	.1387	. 1305	1528	<u>.</u>	. 1.98
	-	.6996 .6996	14860 14843	. 3693 . 3693	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		1978		5 E E E	.1264	1 N	. 1584	.1301	.1507
.6302	n.	.5562 .5514 .5215	25.42. 20.25 20.25 20.25	. 3095 . 2482 . 2115	1509		1172			1175	0723	- 0900	1703	
		בער ה הקקד	ויטניז. פאדק	0 100	1861		. 7297	•	2020		3980			
							.8070	885 85 86 86 86 86 86 86 86 86 86 86 86 86 86			3207	- 1904	0572	
.4588	.	.2609	.2369	1.186	. 1273	9	.8190	•	.4415	4612	2762	2010	0468	
.7290	0	.7790	.8210	.8790	.9210	.9600	0666	1.0180 1	.0460					
.2020 3588 2412		. 2395 - 3983 - 3040 - 2008	1966 2158 - 2159 - 1100	. 1356 . 1247 - 2659 - 2618	. 2794 2794 3689	. 0424 . 0525 2592 3558	8	.5750	3254					
1216 0911 0342		. 0504 - 1050 - 1050 - 0559		1365 0928 0278	2474 1592 1164 0316	3180 2110 1649 3294	3747							
11.870	BETA	A (3)	*	4.256 MACH		1.3913	•	* 599.66		•	442.53	EN/L	•	2.9180
٦ ي	110RBITER FUSELASE	W	***	DEPENDENT	T VARIABLE	LE CP								
.0080		. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.8510	.3010	.3780	.¥970	orts.
1.1367	£9	.6639 .6356 .5950	.4849 .4496 .4078	.3569 .3128 .2936	.2096 .1858 .0541		. 1823 . 1599 . 1387 . 0442	•	.1543 .1298 .0533		.1184		.1033	. 1222
.4870	2	.4485 .4266 .3662	.2358 .2143 .1971	. 1813 1351 1075	03.59 03.69 0.49		. 9550 . 9562 . 3588			1574 1883 2419	- 1220 - 1492 - 3825		- 2437 - 2437 - 1481	

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TABLLATED PRESSURE DATA - DAINB (AMES 11-073-1)	
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920 Ž PAGE .¥970 -.0549 -.0752 -.0655 Ž 3780 -. 1982 -.2086 -.1765 (XEBBEB) 443.00 3010 -.2839 -.2943 -.3587 . 5 -.4502 -.4375 -.47E4 -.0693 -.2844 -.4273 -. 3279 . **20**40 .4875 1.0460 1.0180 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 170 .4808 .5551 .4553 9880 .1660 .7596 .8178 6521 -. 3578 -. 4664 0113 0560 2757 2492 3931 9699 .9600 . 1580 1.3903 DEPENDENT VARIABLE CF DEPENDENT VARIABLE CP .1033 .1165 DIW. .0768 .1748 -.2963 -.3033 .. 8 -3.831 MACH 1200 .0700 .8790 .0861 4.756 .2259 .8210 .0460 1555 . 0230 .2900 . 2540 - 2540 - 2540 .0608 -.0608 -.0131 -.0*93 255 367 BETA SECTION (1) ORBITER FUSELAGE 1) ORBITER FUSELAGE -.3412 .0080 -. P.W 1327. .7290 .2090 -.0993 .. 6595 15.854 11.870 . 1627 . 1727 . 2198 . 1207 9424 0379 9593 .0000 3785 6520 .0737 DATE 10 FEB 76 KPH (6) ALPHA (5) 40.000 40.000 70.000 90.000 110.000 120.000 150.000 165.000 160.000 SECTION PHI 150.000 155.000 165.000 174.000 180.000 £

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3427 3786 2340 2350 1581 0793

*653 *6530 *06* *123 322* 2689 0786

5987 6205 6365 6365 5307 4401 3720 2196

7361 8379 8603 7553 6450 4651 4061

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TABULATED PRESSURE DATA - DAI'48
AMES 11-073(0A148) -3.831
DEPENDENT VARIABLE
.0700 .1120
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2841 1882 2765 0525
MACH
DEPENDENT VARIABLE
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PAGE 4							•		076*.	.2195	.1697	. 2499 . 2499 . 2075	0767	0521	0700			
	2						7		.3780	.2183	1721	1565 1780 4908	- 0781	- 1796	2030 -			
	(XEBB28)						443.00		3010	1910	.,1173	1305 1353 3694	- 3878 -	2953 -	- 3062 -			
						•	•		500	.2084	.0636	1476 1762 2317	- 0+6+	4607	4554			
				1.0460			۵. خ		. 2040			- 0416 - 0101 - 0966 - +#80	-	- 148E -	- 0654.	1.0460	.5448 .3580	
	FUSELAGE			1.0180 1.			* 599.44		. 0771.	·				5287	•	1 0810.	.6702 .5211	
-073-1				9990 1.	QLC1	66 -	•		1660	2693	2304 1605	. 0000 0000 0000 0000 0000 0000		.7003	7530	9990 1		- 3796 - 3936
AMES 1	-140A/B/C/R 0R9		8	.9600	2945 4853 + 343	.3336 .2378 .2622 .3568	1.3903	8	.1580			•			5885	.9600	. 34.40	
0A148 (H- (841)		VARIABLE	. 9210	4527 3765 4581	2571 1826 2313 0727		VARIABLE	.1120	•	.2953 .2387	.0179 .0823 .0264	.0524		.0543	.9210	1475 13541 1357	
TABLLATED PRESSURE DATA - 04148 (AMES 1	AMES 11-073(0A148)	9 0	DEPENDENT VARIABLE	. 9790	5027 3753 4110	- 1930 - 1155 - 2759 - 2442	B3 MACH	DEPENDENT VARIABLE	.0700	.4581	.4045 3602	. 1995 . 1403 . 1087	64-29		.0700	.8790	2355 127.4 14729	
PRESSUR	AMES 1	971.	ä	. 9210	4528 2573	. 2607 . 2607	= 4.283	8	.0460			2250 2250 1870	.1372		. 1629	.8210	.3036 .3100 .4348 .2723	
ABULATED		(8)		.7790	5508 4014 2869		3	tal	0530			.4066 .4066 .3830			. 1533	367.	. 50% . 50% . 1333	
-		BETA	1) CRBITER FUSELAGE	. 7290	4887 3339	- 1636 - 1758 - 1759 - 1759 - 1759 - 1759 - 1759 - 1759 - 1759	*	1) ORBITER FUSELAGE	.0080	2380		.4333			.2670	.7290	3109 . 878 . 458	- 1369 - 0903
ųo	ı	15.868	CRB1 TER	.6520	# 8019.	1211 1567 0803 0756	E,	ORBITER	0000	900					.3128	.6520	88.5 88.5 88.5 88.5 88.5 88.5	- 1015 -
DATE 10 FEB 76		ALPHA (6) =	SECTION (1)	X/LB		110.000 120.000 135.000 155.000	2					35.000 70.000 90.000	140.000 140.000 150.000	151.000 162.000 165.000	174.000 174.000	X/LB		105.000 1.0.000 120.000 135.000

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TABLLATED PRESSURE DATA - DAING (AMES 11-073-1) DATE 10 FEB 76

AMES 11-07310A1481 -140A/B/C/R ORB FUSELAGE

4.283 ALPHA (6) = 15.859 BETA (3) =

DEPENDENT VARIABLE CP SECTION (1) DRBITER FUSELAGE

.9990 1.0180 1.0460 0696. 0158. 0878. 0158. 0677. 0657. .6550

.2790 -.0743 -.3638 .2665 -.0597 -.1052 -.1048 PH1 16F.000 180.000

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431	ъ -		35.000 10.000 1.250	3.0225		57.	961	079												
PAGE	DS AUG		MH-			. 497C	0990	<u>863</u>	.0207	ç	.074Z	0849	0945							
	_	DATA	SPOBRK L-ELVN HACH	PN.'L		.3780	- 0690 -	0893 -	.0940	•	- 1275	- 6141	1653							
	(XEBB53)	PARAMETRIC	-10.000 16.200 .000	552.51		.3010	0557	1535	2394		2309	2269	- 1780 -							
		u.	RJODER = BOFLAP = R-ELVN =	•		.2510	0157	1965	2418	1793	3922	2823	3719							
			584	8		.204c	0119	- 1986 - 1986 - 1986	0.74.0 0.410	.0435 .0435	197≄	2649	3726	1.0460	.1957	1000				
_	-USELAGE			- 599.58		. į 770	Pb				9. 85.	. 7050		1.0180	.2307	9661.	•			
11-073-	/R ORB I			o		. 1660	0138	 25.0 3 ± 6	. 1882 . 2375		.9190	.9747	.9077	9860			2800	. 2203		
PRESSURE DATA - DAIWB (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE			1.2451	LE CP	.1580							1.0459	.9600	2788	1933 0785		0537 .0317	.0545	?
1 - 0A14			8 28	MACH	IT VARIABLE	.1120	ų į		.886 7.997	95-7G	.6088		.6038	.9210	7.5497		2010	0358 .0647	1484 9356	}
SURE DATA	AMES 11-073(0A148)		3800 2000 1N.	-3.845 M	DEPENDENT	.0700	.0053	.0350	3172	. 4836	.5353		.524h	.8790	1.1955	. 1.489 4.7.1.		.0503		-
	AME		1076.6800 .0000 375.0000	•		.0460	.0669	162	. 4086 . 4867	9119.	.6443		.6117	.8210	1201	21.75. 21.75.	9//2	.4850 .4850	0*/-	.4953
TABULATED		2	7447 7447 7447	BETA (1)	F.	. 0230	1852	. 4081 14081	. 7342	. 8013	. 7919		.7309	.7790	0561	0107 1817	1905	.478i	.4703	4519
		REFERENCE DATA	%.FT.		R FUSELA	.0080	.6273		9616.				1.0039	.7290	0233	.0037		.0732	. 1030	. 1225
9 76		REFER	2690.0060 474.8000 936.0680	-3.986	1) ORBITER FUSELAGE	0003.	: . 4005						2.4005	.6520	8	.0932 .0930		. 0685	9.9	2210
DATE 10 FEB			SPEF = 24 LREF = 24 BREF = 5 SCALE = 5	ALPHA (1)	SECTION (X/LB	1H4 000.	£0.69	90.000	1.40.000 1.40.000	150.000	162.000 165.000 169.000	174.000 180.000	X/LB	PH 1	9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00	10.00	135.000	150.000	180.000

425		3.0225		370	9 99 00 00 00 00 00 00 00 00 00 00 00 00			3.0225	5740	.0392
PAGE		•		0264.	- 4960. - 10930. - 05850. - 05850. - 0535. - 0535.			•	J. 6970	008015701570155
	ĝ.	T/NE		.3780	.0871 .0871 .1180 .1217 .1889 .1623			FN/L	.3780	0687 - 0775 - 1378 - 1867 -
	(XE8829)	552.51		.3010				552.51	.3010	.1036 .1036 .3682 .3682
		.		.2510	. 1354			•	86	. 0136
				.2040	.0017	09+0∵	.0686 .0686	86	7	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
_	ORE FUSELAGE	- 599.58		.1770	85.49. 88.	1.0180	. 1144	- 599.58	6771.	,,,,,,,,
APES 11-073-1		ø		. 1660	0103 0232 0569 0569 1645 3924 8533 9503	. 9990	3030 3030 3030	ø	.1660	0316 0142 0250 0256 .0716 .0716 2785
-	-140A/B/C/R	1.245.1	LE CP	. 1580	1.0415	.9600	. 2533 . 2533 . 2533 . 1085 . 1574 . 0550 . 3591	1.2451	.E CP .1580	
- 04148		•	T VARIABLE	.1120	0299 0315 0315 0708 	.9210	- 2488 - 1556 - 0408 - 0347 - 1209 - 0231 - 0451	•	7 VARIABLE 1120 .	0400 0324 .0216 .0914 .3388
URE DATA	HES 11-073(0A148)	186 MACH	DEPENDENT	.0700	0305 0338 0338 2394 2718 4987 4987	.8790	- 1953 - 1965 - 0550 - 0550 - 0550 - 170 - 170	.269 MACH	DEPENDENT . 0700	. 00312 . 0015 . 0209 . 0855 . 1331 . 1829
ED PRESSURE	AMES	•	_	.0460		.8210	2.1159 2.239 2.239 2.239 2.134 4.774 5.796	*	.0460	. 0501 . 0496 . 0624 . 1385 . 1904 . 2578
TABULATED		BETA (2)	H	.0230	. 2002 . 2150 . 3154 . 4756 . 5157 . 5156 . 5166 . 7413	0677.	. 0500 - 0558 - 0658 - 1144 - 2568 - 3318 - 355 - 4786 - 4786	(¥ (3)	€ .0230	1997 1993 1993 1989 1957 1918
			A FUSELAGE	.0080	. 7816 8963 77816	.7290	0218 0050 .0402 .10£6	Z BETA	R FUSELAGE	.6168
24		-3.967	1) ORBITER	.0000	0904.1	.6520	. 1500 . 1639 . 1639 . 1633 . 1633 . 1639 . 1639	-3.974	130PB1TER	1.3915
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	20.000 20.000 25.000 25.000 120.000 150.000 150.000 150.000 179.000 179.000	X/LB	PHI - 000 - 000 - 000 - 000 - 105 - 000 - 135 - 000 - 150 - 000 - 000 - 150 - 000 -	ALPHA (1)	SECTION (X/LB	PHI 20.030 40.060 75.060 90.000 120.000

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433				.5740						•	3.0192		5740	0580			
PAGE				0.00°	0852	093+	0958						.4970	0623	032: 032+ 0816	0867	0840
	(62)			.3780	2241	1909	1642				ANT.		.3780	0255		1668	1823
	(XE8829)			.3010	1982	1647	1791				- 552.04		.3010	0053	1019 1984 4072	3035	2976
				93.0	3932	4142	3508				•		.2510	.0251	2520 2341 1786	4527	3365
				.2040	3194 3293	2797	3838	1.0460	. 1946		599.80		.2040	. 0234 0238	. 0903 . 0803 . 0863 . 0846	2287	.3195
	FUSELAGE			.1770	.4585	.5648		1.0180	. 1653 . 1653		* 596		.1770				.6780 .6780
AMES 11-073-1	98			. 1660	. 7649	. 9025	.9280	.9990		. 3056	a		.1660	9910. 9810.	2304 2304 2304 2056 1408	.899	8
_	-140A/B/C/R		ALE CP	.1580			₹986.	.9600	2965 2577 2398 1482	2624 1496 1278 3745	1.2459	X.E CP	.1580				1.0033
1 - 0A148			IT VARIABLE	.1120	.5071		₩009	.9210	- 2480 - 1588 - 0630 - 0917	2362 1119 0588	MACH =	IT VARIABLE	.1120	9500.	1859 1859 173 173 174	.5211	
RESSURE DATA	5 11-073r0A148)	.269	DEPENDENT	.0700	tett.		.5255	.8790	- 1975 - 1951 - 0836 - 0610	1519 0440 .0631 .2819	-3.871 HJ	DEPENDENT	.0700	.0815	. 3394 . 3394 . 1394	7404.	
Q.	AMES	<i>*</i>		.0460	. 5653		.6179	.8210	-1042 -1042 -2916 -2719 -2719	.0465 .4268 .4595 .5155			.0460	. 1632	13.08 13.08 13.13 13.13 13.13	.5376	
TABULATED		BETA (3)	305	.0230	6189.		. 737¢	.7790	0548 0489 -1470 3091	.4082 .4082 .4367 .4357	BETA (1)	lGE 1	.0230	.3388	. 6819 5739. 6819 5717.	.6847	
			R FUSELAGE	. 0080			.9752	.7290	0182 0091	.1282	.035 86	TR FUSEL	. 0080	.7554	.8960		
3 76		= -3.974	1) ORBITER	0000.			1.3915	.6520	0109 0109 .0612	.0583 .0072 .0072		(1) ORBITER FUSELAGE	. 0000	1.410			
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	PH1 140.000 150.000	162.000 155.000 169.000	174.000 180.000	хле	P+1 - 000 70.000 90.000	120.000 135.000 155.000	ALPHA (2)	SECTION (X/LB	PH1 .000 20.000	55.000 70.000 90.000 120.000	150.000	151.000 147.000 165.000 177.000

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	.3780	2064				RNAL		.3780	0277	0254	1375 1597 1590	1806	1861	2056		
	.3010	2396				552.04		.3010	0035	0499	1771. 2725. 7774.	3150	.2398	2122	•	
	.8510	4278				e.		.2510	.0335	0428	3047 2991 .2703	4603	392·	- 4994		•
	.2040	4218	1.0460	. 2418 . 1856		599.80		. 2040	.0359	-		. 3194	. 3234	4580	1.0460	.1385
	.1770		1.0180	.2765 .2770		865		0771.	_	·			•	•	1.0180	2222
	.1660	.8678	0668.		7.30c0 2447	o		.1660	.0161	. 0505	.4150	.8236	.9169	.9016	0866	
KE CP	.1580		.9600	1979 2068 1366 1626	1194 0414 0083 3188	1.2459	LE ::	. 1580					į	0	.9600	2179
DEPENDENT VARIABLE CP	.1120	.5149	.9210	1759 0650 0570 0492	1204 0289 .0571 .1652	MACH .	DEPENDENT VARIABLE	.1120	6	0460	1799 2277 4032	6767.		. 5255	.9210	1763
DEPENDE	.070	.3988	.8790	1202 1337 .0736 .0504 0205	0468 0227 .0534 .3658	.182 M	DEPENDEN	.0700	1108	196 7.00 7.00 7.00 7.00	3128	.3713	•	0604.	.8790	1206
	.0450	.5011	.8210	0485 0435 1791 1577	.2216 .3705 .3683			.0460	.1538	000	3190	.5134		. \$059	0128	0432
JOE NOE	. 0230	.6088	0677.	.0122 0088 1672 0445	3322 3917 3790 3714 3549	BETA (2)	JOE 10E	. 0230	.3007	24.10	.6091 .6091	.6421		.6209	.7790	.0142 .0074
R FUSEL	.0080	.8816	. 7290	.0207 1027 0342	0126 .0497		R FUSELA	.0080	.7565		.7553			.8687	.7290	.0236
(1) ORBITER FUSELAGE	0000.	1.4104	.6520	.0209 0149 .0141	.000. .0015 .00100.	027	1) ORBITER FUSELAGE	.0000	1.4163					1.4163	.6520	.0168 8*00.
SECTION (7LB	PH1 180.000	//B		135.000 155.000 155.000	LPHA (2)	SECTION (/LB	PH! .000 .20.000	40.000 55.000	70.000 90.000 120.000	150.000 151.000	162.000 165.000 169.000	180.000	/LB	PH1 .000 40.000

(XE8828)

PACE 434

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	TOP 1. TO
CATE 10 FEB 76	

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								3.0192		.5740	059+	0328									
								•		.4970	1637	080	0488 0427	0516	0632	0653	0801				
65								RN/L		.3780	0248	0354	1716		2284	2235	2018				
(XE8B29)								552.04		.3010	0043	0462	2248		2654	- 2241	2359				
								.		. 2510	.0240	0176	3504		4370	4731	4129				
			1.0460					599.80		.2040	.0209	0128	. 0143 - 1034	1263	3742	3325	4368	1.0460	.2379		
FUSELAGE			1.0180					= 599		.1770					ukfo	5384		1.0180	7175.		
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE			0666·	10 10 10 10	2873			o		.1660	0020	04.90	1192	.3118	.7463	.8682	.8873	0666.			
-140A/B/		BLE CP	.9800	2500 1567 1908	2203	0933	, 000 - -	1.2459	BLE CP	.1580							<u>.</u>	.9600	2250	. 2308 2308	3201 2093 1829
(04148)		DEPENDENT VARIABLE	.9210	0933 0888 1580	1838	0158	0900.	MACH	DEPENDENT VARIABLE	.1120		0033 .0127	2,000 1,000	3196	+38+		.5073	.9210	1767	- 1354 - 1319 - 1996	2833 1674 1005
5 11-073	,ı.	DEPENDE	.8790	. 0192 0192 0909	0800		9690	4.246 M	DEPENDE	.0700	.1077	.0989		7713.	.3285		3954	.8790	1206	0012 0634 1430	1677 0759 .0233
AME			.8210	.1729 .1330 .1220	.1798	3945	4809			.3460	. 1563	1430	. 1939 	.3723	.4722		.5064	.8210	10.44		.3361 .344
	BETA (2)	AGE	.7790	1190 .0835 .2071	. 2962	3459	3785	BETA (3)	AGE	. 0230	.2985	.3966 .3746	.4336 .4673	.5602	.5897		9	.7790	9110.	. 0573 - 0853 - 0855	285 3286 37.86 37.86
	027 BH	1) ORBITER FUSELAGE	.7290	1107	.0328	.0743	.0818	032 BH	ER FUSEL	0000.	***		51.02	3			.8496	. 7290	.0266	1156	.0985
	ï	1108911	.6520	0037	.0375	.0276	0.09 0.05	•	1.1088171	.0000	1.4029						1.4029	.6520	.0052	0056 0265	.0388
	ALPHA (2)	SECTION (X/LB	PH1 70.000 90.000 105.000	120.000	150.000	180.000	ALPHA (2)	SECTION (1) OPBITER FUSELAGE	X/LB	PHI 000.	20.000 40.000	25.000 70.000	120.000	150.000	162.000 165.000 165.000	174.000 180.000	X/LB	PH1	70.000 90.000 105.000	110.000 120.000 135.000 150.000

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Ş				i		3.0214		5740	0182	•000•							
4								0.6970	015t	0196	1069	1031	0814	0663			
						RNA		3780	.0283	.0471	0762 1321 2767	1934	205¥	2309			
	(XE8828)					. 552.51		3010	.0385	. 0089	0807 1366 4069	3892	.356	2882			
						•		. 2510	.0639	.0294	2225 2192 2008	5098	4671	4768			
				1.0460		599.82		.2040	0480	.0358	1.000 1.000 1.000 1.000 1.000	. 2402	3733	4730	1.0460	3308	
_	FUSELAGE			1.0180		86		.1770				8	67.40 67.40		1.0180	3903	
11-073-	1/R ORB I			0666.		a		. 1660	.0589	1103	. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17.	.8781	.9073	.8276	9860	8	***************************************
- 0A148 (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE		PLE CP	.9600	3866	1.2454	RE CP	.1580						9519	.9600	- 1176 - 1491 - 2484 - 1879 - 2302	1869 1327 0878 3176
¥ - 0			DEPENDENT VARIABLE	.9210	0094	MACH .	VT VARIABLE	.1120		1327	. 2848 . 2848 . 3796	.4112		.4135	.9210	0964 .0409 1032 1126	2237 1261 0003 .1176
SURE DAT	AMES 11-073(0A148)	4.246	DEPENDE	.8790	8215	-3.869 M	DEPENDENT	.0700	. 16+9	. 1590	325 325 325 325 325 37 37 37	.2691		.2726	.8790	0383 0537 0066 0291	0902 0827 0397 2631
TABULATED PRESSURE DATA	AFE		, .	.8210	.3868	3		.0460	.2744	. 3482 . 3482	+335 +484 +595 +595 +693	. 4345		.4053	.8210	.0346 .0398 0195 .0530	. 1537 . 2643 . 2695
TABULA		BETA (3)	AGE	.7790	.3527	BETA (1	AGE	.0230	¥172	.6038	. 5866 . 5886 . 5887.	5689		.	.1790		.2286 .2841 .2643 .2714 .2612
		032 B	1) ORBITER FUSELAGE	.7290	.1008	3.922 B	1) ORBITER FUSCLAGE	.0080	.8826		.8598			57.F.	.7290	1865 1865	.0500
8 8 26			1.30RB1TI	.6520	.00039 0008	# W.C		. 0000	1.4012					1.4012	.6520	.0389 .0518 0574 0260	0784 0192 0100
DATE 10 FEB 78		ALPHA (2)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (3)	SECTION (X/LB	PH1 .000	20.000 20.000	55.000 70.000 90.000 120.000	150.000	151.000 162.000 165.000	174.000	X/LB	PH1 - 000 - 70 - 000 - 90 - 000 - 105 - 000	150.000 150.000 150.000 165.000

131		3.0214		0776	0137	3.0214		029
PAGE				.4970	0.000. - 0.022. - 0.057. - 0.050. - 0.050. - 0.050. - 0.050.			0158 0446 1059 0837
	(62)	FN/L		3780	4520. 0.520. 0.61. 1845. 1815. 1815. 1815.	RNAL	8	
	(XEBB29)	- 552.51		.3010		- 552.51	e e	. 2500 . 0065 2671 2686
•		·		.83		•	Š	.0477 .0477 3088 3315
		599.85		.2040		599.82	Š	0396 0396 0396 0396 0397 0331
	FUSELAGE	* 596		.1770	. 5323 . 5923 . 1. 0180 . 3367	\$65 •	į	
11-073-1	8	ø		. 1660		Ġ	g	0424 0363 0735 1699 3390
- 0A148 (AMES 11-073-1	-140A/B/C/R	1.2454	LE CP	.1580	9322 980 980 980 973 973 973 973 973 973 973 973	1.2454	ונ כף פוני	
		MACH .	IT VARIABLE	.1120	. 1028 11028 11028 11836 11836 11836 11836 11838 11713 11838 11838 11713 11838 11838 11838	MACH .	IT VARIABLE	0530 0624 0624 0766 0918
PRESSURE DATA	11-073(0A148)	.180 M	DEPENDENT	. 0700	1873 1873 1873 1873 1873 1873 1873 1873	.237 M	DEPENDENT	1835 1736 1736 1736 1736 1736 1736 1736
	AMES	•		.0460	27. 28. 28. 28. 28. 28. 28. 28. 28. 28. 28	*	į	2883 2883 2883 2883 2883 2883 2883 2883
TABULATED		BETA (2)	ig Ke	. 0230	1. 16. 16. 16. 16. 16. 16. 16. 16. 16. 1	BETA (3)	lGE State	7.02. 7.02. 7.02. 7.02. 7.00. 8.00. 7.00.
		3. <i>922</i> BE	R FUSELAGE	.0080	2657. 2657. 2667. 2667. 2669. 2669. 2669. 2669.		TR FUSELAGE	. 5788
8		3.6	1) ORBITER	.0000	1.4062 1.4062 0.520 0.601 1.906 1.90	3.925	1) ONBITER	6166 6166
DATE 10 FEB 76		ALPHA (3)	SECTION (X/LB	H	ALPHA (3)	SECTION (7. 25. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26

ALPHA (3) =

(XEBB59)

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 3.925 BETA (3) = 4.237

		_					•									
		.5740							3.0205.		57.5	.0446	.070			
		.¥970	- 0498	0526	0663						.4970	.9465	.0503	1531 1821 2963	1185	0838
		.3780	2161	2423	2286				RNAL		3780	.090	.1126	0677 1325 4350	2307	-23
		.3010	3220	2748	2840				325.98		.3010	.0951	.0831	0592 0497 +045	.4765	·4092
		.2510	5043	5187	4558				•		.2510	.0951	. 1258	1775 - 1985 -	5583 -	5205 -
		.2040	2649	3818	9064	1.0460	.3178 .1853		599.59		.2040	4000	1180	1613	-	- 6224
		0771.	. 1.0180				.3074	3074								0129
		. 1660	.7236	.8347	.8502	0666.	•	- 3622 - 3622	G		.1660	1511.	1838	98 98 98 98 98 98 98 98 98	.8528	.8776
	LE CP	.1580		1	. 19913	0096.	1511 1383 2956 2282	4192 2578 2237 3984	1.2446	es ce	.1580					. 9920
	DEPENDENT VARIABLE	.1120	. 3492		£404°	.9210	0997 0055 1725 1780	3349 2115 1508 0531		T VARIABLE	.1120	659	2611	4.0.4. 8.8.8.	.2287	
}	DEPENDEN	.0700	.2178		.2730	.8790	0381 0483 0771 1294	1898 1343 0459 1863	870 MACH	DEPENDENT	.0700	33C5 284 284	3201	25.00 20.00	Ę.	
•		.0460	3885		.4107	.8210	.0388 .0551 .0221 .0147	0261 .2407 .2431 .3060	-3.1		. 0460	.378# .3967	101. 101.	+550 +373 3892	.3352	
,	႘	. 0230	+264.		.5026	.7790	. 1086 - 1086 - 204 0134 1085	. 25.27 . 25.90 . 26.90 . 26.97	TA C 13	Ę,	. 0230	.5385	.6953	.6920 .6469 .5640	.4518	
}	R FUSEL	.0080			.7107	. 7290	.0833 2004 1317	0152 .0543	90 BETA	PUSELA	. 0080	1.0027		.8105		
	1) ORBITE	. 0000			1.3919	.6520	.0198 .0654 0663 0745	. 5133 . 6000 . 0000	- 7.990	DORBITER FUSELAGE	.0000	1.3698				
	SECTION (1) OMBITER FUSELAGE	X/LB	PHI 140.000 150.000 151.000	165.000 169.000	180.000	x/LB		135.000 135.000 150.000 165.000	ALPHA (4) :	SECTION (X/LB	PH1 .000.	*0.000 55.000	70.000 90.000 120.000	150.000	162.000 165.000 169.000 174.000

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85			56					#UCU *			ere.	7.60	9880.			•			
PAGE			.4970	0547				•	•		979	. 0533	6 60.	2030 1756 1707	0703	0488	615		
ê.			.378	2557					TAR/L		92. 8	.0915	6780.	1267 1869 3804	1975	2077	2209		
(36883)			3010	3541					356.38		.3010	. 1033	.0757	1359 1718 4522	4257	3313	3007		
			920	5114					# O.		<u>8</u>	. 1010	.1097	2204 2499 2690	5592	- 4848	5528		
			. 2040	5162	1.0460	.3830		(599.59		.20% 0.0%	1092	20.0	1466 1013 1020	3304	4131	er#2	1.0460	. 2804 2532
-073-1) ORB FUSELAGE			.1770		1.0180	.4971 .4695		1	566 *		0771.				3	5698		1.0180	
11-073-1 /R ORB FU			. 1660	.7910	0666.		3/16 3116		0		. 1660	.1167	200	1959 2386 410	.7651	9	.8172	0666	
PRESSURE DATA - 0A148 (AMES 11-073-1 AMES 11-073(0A148) -140A/B/C/R ORB F		E CP	.1580		.9600	0478 0916 2618 2140	2807 1806 1541 3594		1.2446	LE CP	. 1580						8958	.9600	05*1
- 04148		T VARIAB	.1120	. 2429	.9210	.0002 .1014 1774 2957	2489 1516 0500		MACH	T VARIABLE	.1120	į		1556 1502 1502 1552	.2278		285	.9210	0102
RESSURE DATA - 0A1 ¹ AMES 11-073(0A148)	370	DEPENDENT VARIABLE	.0700	.1632	.8790	.0507 .0316 0859 1658	1165 0859 . 0201		.176 MA	DEPENDENT	.0700	.2763	24. 24.	.2228 .2228 .959	.1457		. 1629	.8790	.0388
ID PRESSU AMES	-3.870	_	.0460	.3184	.8210	. 1283 . 1390 - 1448 - 0200 . 0409		.4309	•		.9460	3850	.4016 .4016	. 3509 . 3469 . 3365	.3403		.3068	.8210	1407
TABULATED	(1 t V	ж	.0230	.3654	.7790	1744 1789 1.324 1.274 0678		1832	TA (2)	¥	.0230	57.42	£35. 5.10.	. 5564. 1569. 1569. 1569.	.4286		387	.7790	. 1939
)0 BETA	FUSELAC	.0080	.6013	.7290	.1374	1654	.0000	95 BETA	R FUSELA	.0080	1.0096		.6728			5870	.7290	. 1467
æ	7.990	1) ORBITER FUSELACE	.0000	.3698	.6520	. 1317 1390 1390	• •	6328	7.99	11 ORBITER FUSELAGE	0000	1.3729					1.3729	.6520	. 1203
DATE 10 FEB	ALPHA (4) =	SECTION 1 1	X/LB	PH1 180.000	X/LB	PH - 000 70.000 90.000 - 000			ALPHA (4)	SECTION (X/LB	000	20.000 40.000	75.000 70.000 90.000	150.000	151.000 162.750 165.000	169.000 174.000 180.039	X/LB	000. 000. 000.

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DATE 10 FEB 76

(XEBB29)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				ļ !	3.0205		.57%	S.	.0351				,						
					•		.¥970	.0499	.0070	2086	0975	8±73	- 758	0621					
							.3780	0460	.0596	1864	2272	1883	2263	2314		n y			
			,		. 552.98		.3010	. 1005	.0624	- 1941	4935	36+1	3080	3172					
					₾.		.8510	.0987	.0867	8000 8000 8000	3330	5622	5372	4938				•	
		1.0460			599.59		.2040	0900	626	95.2	0552	4165	 1454.	5338	1.0460	200			
		1.0180			8		.1770					175	200		1.0180	7.64		٠	
		3886 .	3914 3435		Ø		. 1660	.1113	1023	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3646	.6993	.8010	.8201	0666.				
	BLE CP	.9600	2674 2356 2868 3596 2459	3732	1.2446	BLE CP	. 1580						200	2020	.9600	0786 0846	3079	- 4562 - 2885	- 2602
	DEPENDENT VARIABLE CP	.9210	1866 3179 3179	0586	MACH	NT VARIABLE	.1120	96	1272	. 0676 . 0679	189	. 1818		.2181	.9210	0252 0735	2437 1943 3123	3571	2037
371.	DEPENDE	.8790	1124 2246 2926 1600 0869	100	4.0±0.4	DEPENDENT	.0700	5075.	2332	1568	1321	.1153		.1667	.8790	.030*	- 1465 - 2301 - 3583	2157	0922
- (2		.8210	0995 0116 0505 0407 2362	.4826	3) = 4		.0460	3888	3352	, v. v.	2685	3095		.3357	.8210	1344		- 9817 887	S.A.
BETA (2	AGE	.7790	3180 2619 0330 1139	66.2	BETA (3	AGE	. 0230	5388	525	.4593 .4518	. 4296	. 3928		.382	.7790	1851.	3142	969 7991	.2308
7.99	ER FUSEL	.7290	2458 1937 0883	1000	7.996 B	1) ORBITER FUSELAGE	.0080	686		.5223				.5635	.7290	. 1516	7964 1836	0665	00
•	1108811	.6520	1363 0790 0670	61 % 0100			. 0000	1.3616						1.3616	.6520	. 1030	1164	0163	0107
K.PHA (4)	SECTION (1) ORBITER FUSELACE	X/LB	741 70.000 90.000 105.000 110.000 135.000	165.000	ALPHA (4)	SECTION C	X/LB	H. 6000		90.06 .000 .000	120.000	150.000	162.00 163.00 16	180.000	X/LB	PH1 . 000 40.000	90.00 90.00 00.00 00.00	130.000 135.000	150.000

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POD CEPENOENT VARIABLE CF.	10 FEB 76			TABULATED		PRESSURE DATA - OA148 (AMES 11-073-1 AMES 11-073(0A148) -140A/B/C/R ORB FU	1 - 0A14 0A148)	8 (AMES 11-073-	11-073-	-1) FUSELAGE			CXEB	(XE8829)	PAGE	;
NARIABLE CF -3210	7.996 BETA (3) = 4.240	(3)	(3)	•	9. 0.											
13584096 H = 1.2447	JECTION (1) ORBITER FUSELAGE DEPENDE			DEPENDE	DEPENDE	Z	T VARIA	RE CF					• • •			
H = 1.2447	.6520 .7290 .7790 .8210 .8790	.7790 .8210	.8210	8510	.6790		.9210	.9600	3666 .	1.0180	1.0460					
H = 1.2447 Q = 599.71 P = 922.98 RM/L = 3 VARIABLE CP .1120 .1560 .1770 .2040 .2510 .3780 .4970 .2378 .1560 .1770 .2040 .2010 .3780 .4970 .2378 .2400 .1690 .2002 .1610 .1730 .1235 .2393 .2420 .1690 .2002 .1610 .1730 .1236 .2393 .2420 .1870 .1870 .1870 .1876 .1856 .2393 .2420 .1870 .1870 .1876 .1876 .1856 .1739 .2460 .1863 .1863 .4863 .1863 .4863 .1866 .1302 .7860 .9666 .9666 .5786 .2786 .1836 .4346 .1302 .7860 .9660 .9660 .1016 .1046 .5162 .2913 .1040 .1040 .1302 .7860 .9660	0187	. 1982 . 1549	.3921		961		1358	9604								
VARIABLE CP .1500 .1770 .2040 .2510 .3780 .4970 .2378 .1906 .1648 .1417 .1403 .1638 .1235 .3032 .2050 .2690 .2002 .1610 .1784 .1236 .3342 .2450 .2690 .2078 .1721 .1731 .1638 .1528 .2359 .1911 .2078 .1727 .0518 .1721 .1528 .2359 .1911 .2078 .1727 .0518 .1538 .1538 .1739 .9609 .1662 .2667 .5378 .2759 .1538 .1302 .7609 .7609 .9662 .9673 .2667 .7608 .1606 .9810 .9800 .10180 1.0462 .5413 .2108 .0606 .9826 .7629 .9839 .10180 1.0462 .3413 .2108 .0606 .9826 .8926 .8939 .10462 .2913 .2913 .2913	11.923 BETA (!) * -3.851 M	(!) = -3.851	(!) = -3.851	-3.851		-		1.2447	O		1.71	•	955.9			3.023
. 1580 . 1660 . 1770 . 2040 . 2510 . 3010 . 5780 . 4970 . 2050 . 2055 . 1648 . 1417 . 1403 . 1638 . 1235 . 2055 . 2055 . 1565 . 1690 . 2002 . 1610 . 1784 . 1256 . 1970 . 1970 . 1731 . 1227 . 0518 1538 1	DEPENDENT			DEPENDEN	DEPENDEN											
. 1906 . 1906 . 2050 . 2050 . 2050 . 2050 . 1950 . 1950 . 1950 . 1951 . 1951 . 1951 . 1951 . 1951 . 1952 . 1953 . 1953 . 1953 . 1953 . 1953 . 1953 . 1953 . 1953 . 1953 . 1954 . 1954 . 1954 . 1954 . 1954 . 1954 . 1955 . 1955 . 1956 . 1956 . 1957 . 1957 . 1959 . 1958 . 1959 . 1959 . 1959 . 1956 . 1956 . 1956 . 1956 . 1956 . 1956 . 1957 . 1958 . 1958 . 1958 . 1958 . 1958 . 1958 . 1958 . 1959 . 1959	.0000 .0080 .0230 .0460 .0700	.0230 .0460	.0460	04-20	.0700		.1120	.1580	.1560	0771.	.2040	.2510	.3010	.3780	6.64°.	Ŀ
. 2050 1565 1565	. 4823	.6636 .4823	. 4823		.3593				. 1906		.1648	.1417	. 1403	. 1638	.1235	<u> </u>
. 1997	5051	5051	5051		3553		.237B		0202.		.1565			•		
. 1911 . 2078 1227 0518 0587 1911 2078 1922 1702 1514 1514 1933 1702 0768 1214 1524 1702 0768 1214 1521 1521 1521 1521 1521 1521 1521 1521 1521 1521 1521 1521 1521 1521 1521 1521 1521 1522 152	, 400°	, 400°	, 400°		. 38 638 638		2.5 2.5 2.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3		26. 26.		1731	2002	. 1610	5	S.	<u> </u>
. 17650 - 1705 -	7416. 1949. 3147	.6622 .4480	084		.3147		.2399		191		2078		0518		1528	
. 940%	.4739 .2923	.4739 .2923	2953		176		1739		.4635		30		3849		9464	
.8458 .8458 .7850 .7850 .7609 .9600 .9800 .9800 .9800 .9800 .9800 .9800 .9800 .9800 .9800 .9800 .9805 .9802 .9803 .9	. 3335 . 2551 . 1111	.2551 .1111	.2551 .1111	.1111		•	1399		5			5967	5378	2759	1533	
. 7850 . 7609 . 9600 . 9600 . 9800 . 9800 . 9805 . 9825 . 0028 . 0028 . 5855 . 4292 . 0341 . 5162 . 2973 . 2679 . 3100 . 3999 . 3990 . 3999 . 3999 . 3999 . 3999 . 3999 . 3999 . 3999 . 3990 . 3999 . 3990 . 3990										2.868 2.868	4662	5575	4493	2389	1040	
. 7609									.8458							
.9600 .9990 1.0180 1.0v60 .0028 .0028 .5162 .973 .5162 .2973 .5171 .5162 .2973 .3999 .3900 .3999 .3900 .3933 .5933 .3917	.3163 .4566 .2473 .2201 .0939	.2473 .2281 .0939	.2201 .0939	2201 .0939		•	1305	969/	.7609		5483	+.5354	9413	2108	0606	
. 0028 . 5625 . 4292 . 0341 . 5162 . 2973 . 5571 . 5162 . 2973 . 5571 . 5162 . 2973 . 5579 . 3999 . 3900 . 2293 . 2636 . 5837	0878. 0128. 0677. 0821. 0529.	.7790 .8210 .8790	.8210 .8790	6210 .8790			.9210	.9600	.9990	1.0180	1.0460					
			•										.,			
- 2571 - 2679 - 3110 - 3299 - 3900 - 2293 - 2636 - 3817	2216 1224	.2891 . 2121 . 1224.	.2121 . 1224.	2216 1224		•		9200.		5855	.4292 					
3299 3299 2293 2636 3817	. 3862 - 9414 - 5385 -	- 14 14 9 - 2565 - 2534	22662234	2562234		٠.		1200		2010.	5/63.					
3299 2636 3817	285358009321585 28500832934	358009325574 288600832934	.358009322934 .2886 .00832934	19322574 10832934												
	1861	1981 0450. 0600	.05401861	05401861		•	2855		000A.							
	20990805 .17860809	0023 .17961475	.31160809	1796 - 1475 3116 - 0809			. 1883	2636								
	4LL 194	4771.	FT.	11.			.0218	3817								

DATE 10 FE	FEB 76		TABULATED		PRESSURE DATA	1 - 0A148 (AMES 11-073-1	•					PAGE	245
				AME	AMES 11-07310A1481		-140A/B/C/R ORB	/R ORB F	FUSELAGE		**	(XE8829)	62		
ALPHA (5)		11.934 B	BETA (2)		.177 HA	MACH .	1.2447	σ	= 599	599.71	.*	552.98	REVAL	•	3.0237
SECTION	(1) ORBITER	TER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	RE CP								
X/LB	0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	0771.	040à.	.2510	.3010	3780	.4970	.57*0
PHI 2000 2000 400 000 000 000 000 000 000 0	1.320		.6672 .6797 .6863 .5099 .5000	.4933 .4856 .4840 .3991 .3369	.3393 .3393 .3579 .2893 .2250					1675 1514 1191 1238 1639	.1335 .1505 . .1753 .		*691. *6971. *826.	.1276 .1078 .22*1	1397
140.000 150.000			.3128	.2493	8881.	. 1279		7406		0632 3189		. 4348	•	6311	
151.000 162.000 165.000 174.000							7803	.7800	.5166 .5466	-, 4489	. 5190	3620	. 1661	.0495	
180.000	1.3210	.4370	.2623	.2344	.0987	. 1293		.7750		5737	5767	3254	19v9	0407	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	9880	1.0180	1.8460					
PHI	. 1868 . 1405 . 1405 . 1867 . 1867 . 1867	.3079 3766 2588 1322 0936	. 2969 . 3190 . 3190 . 3428 . 2001 . 0219 . 0382 . 0595 . 0596			.0554 .1547 .2673 .2813 .4276 .2274 .1738	. 3978	8080 *** • •	. 4673 . 4673	. 231 2780					
ALPHA (5)		11.927 BK	BETA (3)		4.253 MACH	# 5	1.2447	o	- 599.71	.71		552.98	REVL		3.0237
SECTION (110FBITER	ER FUSELAGE	A GE		DEPENDENT	T VARIABLE	F. CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	. 1580	.1660	.1770	.2040	50. 50.	3010	.3780	0.64.	.5740
74. 20.030 25.030 25.000 20.000 120.000	1.3097	1.1052	.6377 .6310 .5838 .4858 .4285 .4044	.4890 .4683 .2896 .2896 .2899	.3561 .3075 .525. .1896 .1401 .727	. 1951 . 1660 . 0791 . 0873		1882 1362 1362 1363 1609 1516	·	25.00 25.00	. 1364 . 1059 . 2059 . 3260	. 1933 . 1752 . 1997	. 1691 . 1172 . 1950 . 3560	. 3006 . 3006 . 3006	.1%8 .1061

PAGE 443	•			0472. 0784. 087E.	290561	9170469	iz90639			
	(XE8829)				1829	1917	2129			
	Ä			.3010	4060	32h	3440			
				50 50 50 50 50 50 50 50 50 50 50 50 50	5937	5417	5238			
				.2040	1502	++5+-	5625	1.0460	3952. 3952.	
-	FUSELAGE			3771.		4859 4		1.0180	. 5857 . 4490	
TABILATED PRESSURE DATA - DAIHB (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE			.1660	.6506	ğ	. 7889	0666.		168g.
B (AMES	-140A/B/		BLE CP	. 1580			.7566	.9600		5162 2932 2830 4130
4 - 0A14	(0A14B)		DEPENDENT VARIABLE CP	.1120	. 0998		.1133	.9210	. 0322 . 1488 2762 2941	3997 2343 2196 1689
SURE DAT	5 11-073	4.253	DEPENDE	.0700	.0607		. 1067	.8790	. 2559 - 3295 - 4703	2527 1556 0946 1337
TED PRES	AME			.0460	.2269		.2573	.8210	. 1845 - 1845 - 1845 - 1988	1688 .1862 .3505
TABLA		BETA (3)	AGE	. 0230	.2875		.2649	.7790	. 2938 . 3092 . 4183 - 2750	.0296 .0795 .1300 .0916
			R FUSEL	.0080			*80*·	.7290	. 3639 3639 2442	1045
9 76		11.927	1 1 ORB I TE	.0000			1.3097	.6520	.1757 .1781 2143	0404 0783 0341 0531
DATE 10 FEB 76		ALPHA (5) =	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 140.000 150.000	162.000 165.000	174.000 174.000 180.000	X/LB	PH1 - 60.000 - 70.000 - 900.000 - 900.000	135.000 135.000 150.000 165.000

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	35.000 10.000 1.100	3.1908		3740	0281	9±89							
				.4970	1058	1490	0110	0387	0472	0418	0392		
DATA	SPOBPX L-ELVN PACH	FR/L		.3780	1332	1608		- 1033	. 17:1	. 1961	2328		
PARAMETRIC DATA	-10.000 16.300 .000	709.06		.3010	- 	2022 -		- 3256 - - 5440 -	- 3358	- 1982 -	2350 -		
Δ.	RUDDER = BOFLAP = R-ELVN =	•		.2510	1680	2397		3569 296	5202	4238	+0**		
	2.8 3.4	600.21		.2040	0632			0823	0259 2930	4469	5688	1.0460	989 881 - 885
		• 600		0771.						.6019		1.0180	. 2011 . 2011
		o		. 1660	0191	1575	. 1213	. 1556 5104	.8329	888.	.8190	.9990	4518 3203
		1.0997	LE CP	.1580							.9787	.9600	. 3159 . 3159 . 3355 . 1990 . 1534 . 1534 . 0570 . 3771
	222	MACH	IT VARIABLE	.1120		0460	.0912 747	4939	.5791		.5748	.9210	- 1886 - 1782 - 1688 - 1803 - 1303 - 1985 - 1509 - 1569
	76.6800 IN. .0073 IN. 75.0000 IN.	-3.852 MA	DEPENDENT	.0700	.0138	0380 0098	3000	.4870 .4870	.5500		.5¥06	.8790	. 2395 . 2395 . 0775 . 0468 . 0453 . 0673
	1076.6			.0460				.4739	.6455		.6126	.8210	
.<	XMRP YMRP ZMRP	BETA (1)	æ	.0230	.1329	. 1640 . 3490	51753	705.3	.7829		.723E	.7790	0736 0793 0793 3.128 3.128 3.727
REFERENCE DATA	SS.FI.	杏	R FUSELA	.0090	.5549			.8792			.9750	.7290	0265 .0511 .1280 .1280 .2170
REFER	2690.0000 474.8000 936.0680	-3.594	1 JORBITE	0000	1.3153						1.3153	.6520	
	SREF = 26 LREF = 4 BREF = 9 SCALE = 9	ALPHA (1)	SECTION (1) ORBITER FUSELAGE	X/LB	РН1 .000	20.000 40.000	55.000	120.000	140.000	152.009 165.096 169.000	174.000	X/LB	PH1 40.000 70.000 90.000 110.000 135.000 150.000 165.000

7		3.1908		Ę.	023	. 65g													3.186		Ē	023	10.		
PAGE		•		0784.	.0942	新二.	0257	-0X0-	1710	£10	,	0166							•		56°.	.1032	.0926	60.0	100
	â	EN/L	10° 41	5780	1273	- 1440 -	151.		2118 -	- 6922		2318 -									3780	- 1339 -	- 1423 -	- 116	
	(XEB830)	703.06		.301Q	1423	1910	- 4057		- 2825			2073							709.06		3010	141.	- 1928	2038	
		•		989	0876	1927	4713	3981	5131	4517		5507							•		0155	0914	1659	7-52-7	4853
		13.009		.2040	98	1806	1079 0871 1983	1605	4213	1644		4848	1.0460	. 2302 988					600.21		.2040	938	. 137	1492	2847 2847
-	USELAGE		=	<u>£</u>					45.69	5325			1.0180	3038					•		.1770				
AMES 11-073-1	/R ORB F	0		. 1660	0:31	1052	+.0207 0515 0515	. 2937	.7596		9280 9280	.6478	0666.			4800			0		. 1660	0178			1831
	-140A/B/C/R ORB FUSELAGE	1.0997	RE CP	. 1580							.9681		.9600	2831	2388 2388 258		- 1293		1.0997	ALE CP	.1580				
1 - 04148 (MACH	IT VARIAELE	.1:20	i	\$5. 5.5.	. 1662 1662 1662	¥096	.5363			.5835	.9210	2588	- 1497 - 1451 - 1828	1927	0392		HACH .	IT VARIABLE	.1120		0259 0215	1072	3065
PRESSURE DATA	AMES 11-073(0A148)	.190 M	DL.PENDENT	.0700	1010	0032	. 2074 -2074	3848	.5061			.5450	.8790	- 2302	0230 1092	1847	0.038	3	4.268 M	DEPENDENT	.0700	.0209	. 0005 8005	1246	. 1882 575.
_	AMES	•		.9460	.0818	.0770	.2808 .2808 .474	2068	.639			.6205	.8210	- 1564	180 E	F#15.	5765	.6530	•		.0460	5,80.	.065 4.050	1802	2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
TABULATED		BETA (2)	AGE	.0230	1388	. 1357. 1355.	.5149 .5149	.6832	.7285			.7323	.7790	0801	1.08 W	4128	1000 1000 1000 1000 1000 1000 1000 100	5103	BETA (3)	AGE	.0230	7621.	.23.7	. 4940 7494	5474. 5817
			FUSEL	.0080	9539		682.4					.9642	.7290	0341	11147	. 244B	.3067	.316!		FUSEL	.080	.5338			2 000.
57.		-3.985	1) ORBITER	. 0000	1.3174							1.317	.6520	.0617		.1675	1181.	1852	-3.992	1) ORBITER	.0000	1.30%2			
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	9H6 .000	20.00 40.000	55.000 70.000	120.000	150.000	162.000 165.000	169.000	180.000	X/LB	H. 000.	90.050 00.050 00.050	120.000	150.000	180.000	ALPHA (1)	SECTION (X/LB	1#4 000.	20.03 0	55.000 76.009	90.059 120.000

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DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

¥.268	DEPENDENT VARIABLE CP
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BETA	CE ARE
-3.992	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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ALPHA (1)	SECTION
A: PH	UE

	gre.							3.1886		3740	03%2	0324			
	.4970	0403	0337	0369				•	٠	078¥.	1036	1100	98. 888.	058	0329
	.3780	30 2	2578	2169				TANK .		.3780	0881	0945	1371	1821	2156
	.3010	2668	2312	2305				• 709.5¥		.3010	0929	1211	1428 2351 5466	4146	3780
	0.25-	529	57.26	4234				•		.2510	0393	1231	- 3849 - 3486 - 2943	6135	56
	.20%	4683	- £	5723	1.0460	. 0961		599.48		.2040	0114 00104	1151	.0350 0261 0157	3486	9264
	.1770	.3531	.4527		1.0180	.2057 .2057		6 5		.1770				1255	895
	. 1660	.6722	.8109	.8361	0666.	3		ø		. 1660	.0208	- 0203-	. 1634 . 1973 . 4138	.8101	.8525
A.E. CP	.1580			-9152	.9600	3222 3314 3949 2884	3508 2366 2281 4290	1.0986	RE CP	. 1580					. 9395
DEPENDENT VARIABLE	.1120	.4810		5775	.9210	31 <i>27</i> 21 <i>77</i> 2024 2355	3049 2096 1615 0784	MACH	IT VARIABLE	.1120	8	. 0663	. 3195 . 3195 . 4602	.5092	
DEPENDEN	.0700	7644.		.5359	.8790	- 0005 - 0005 - 0005 - 0009	2650 1682 0568	-3.866 M	DEPENDENT	. 0700	.0755	10403	.3520 .3520 .4355	¥55¥.	
	.0460	.5604		.6164	.8210	- 1544 - 1466 - 2844 - 2946 - 2362	.1488 .4956 .6041	•		.0460	1685	2091	. 4220 . 4720 . 4746 . 5453	.5394	
18	.0230	.6641		.7280	.7790	0785 0747 0175 	3120 4572 4660 4741	BETA (1)	ige Ige	. 0230	755	. 4631	. 6954 1.057 1.057 1.057	.5738	
TR FUSEL	. 0080			.9458	.7290	0266 .1213 .1705	2305. 2807.	.020 88	1) ORBITER FUSELAGE	. 0080	.6861		.8616		
1) ORBITE	0000.			1.3042	.6520	.0531 .0448 .1548	8-91. 1845 1835 1831		1.0R91TE	. 0000	1.3274				
SECTION (1) ORBITER FUSELAGE	X/LB	PHI 140.000 150.000	162.000 165.000 169.000	174.000 180.990	ë 1/X	. 000 . 000 70.000 90.000 10%. 000	170.000 170.000 150.000 165.000	ALPHA (2)	SECTION C	X/LB	1H4 000	70.030 70.030	70.000 90.000 120.000	150.030	162.000 165.000 177.000

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447				57.c					3.1886		5740	0287	0075						
PAGE				.4970	0458				•		£970	0998	0903	0585 047 0487	0294	0224	0283		
	930,			3:30	2512				FRY.	•	3725	0868	0837	1869 1812 1533	2067	2416	2527		
	(XE 883 0			.3010	3059				- 709.5		.3010	0913	1201	2161 3167 6070	- 384	2985	2756		
				185	5224				۵.		65.	0343	0952	4413 4290 3881	5779	5183	6185		
				. 2040	6050	1.0460	. 1632		599.48		.2040	.0076	0723	. 0288 . 1297 . 1401	4826	4985	5637	1.0460	.2403 .1298
÷	-140A/B/C/R ORB FUSELAGE			.1770		1.0180	.3333		90 •		.1770				4388	.5021		1.0180	.3816 .2690
AMES 11-073-1	C/R 0RB			. 1660	.7759	.9990		.3371	a		.1660	.0297	0013	. 192 . 198 . 3193	1361.	3255	.8080	S390	
_	-140A/B/		BLE CP	. 1580		.9600	1936 2754 3548 2359 2471	1993 1234 1075 3836	1.0986	BLE CP	. 1580						9268	.9600	2033 2524
A - 0A148			DEPENDENT VARIABLE	.1120	.5017	.9210	1754 0731 1245 1286	1587 0706 0066	MACH =	NT VARIABLE	.1120		.0631	3904	£774.		.5087	.9210	1862 0778
TABULATED PRESSURE DATA	NES 11-073(0A148)	-3.866	DEPENDE	.0700	.4421	.8790	1349 1629 .0422 .0055	1418 1037 0103 .2543	.187	DEPENDENT	.0700	.0834	0893	2.00 2.00 3.00 3.00 3.00 3.00 3.00 3.00	.4199		.4473	.8790	1407
red Presi	APE			.0460	.5137	.8210	0613 0524 2691 2691 2649	.4329 .4329 .4112			.0460	.1748	1930	3167 3167 3613 4558	.5179		51.72	.8210	0665 0597
TABULA		BETA (1)	IGE	. 0230	.6106	.7790	.0167 .0280 .0622 .1623.	3895 4512 4480 4236 4076	BETA (2)	136	. 0230	.2611	.4015	5392 5392 5304 5304	.6349		6119.	1790	.0182 .0182
		020	1) ORBITER FUSELAGE	.0080	.8508	.7290	.0521 1474 0880	.2552 .1776 .2161	014	R FUSEL	.000	6069.		7157.			.8460	.7290	.0423
3.76			1.10RB1TE	.0000	1.3274	.6520	.0926 .0334 .0334	.0372 .0773 .996 .1035	•	13 OKBITE	.0000	1.3307					1.3307	.6520	.0897 .0473
DATE 10 FEB 76		ALPHA (2)	SECTION (x/LB	PH1 180.000	X/LB	PH1 - 000 - 40.000 70.000 90.000	110.090 120.000 135.000 150.000 165.000	ALPHA (2)	SECTION (1) ORBITER FUSELASE	X/LB	1# 4 000.	20.000 40.000	55.000 70.000 90.000 120.000	150.000	162.000 165.000 169.000	174.090 180.000	X/LB	PH1 . 000 . 000

IMPANTA IN

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Ž.						RN/L		LG70		1084	0930		0361	i	037B		9.I				
30)								23		0905	-, 1006	2095	1614	2613	2783		- 2462				
(XEBB30)						¥.007 •			. 3010	0914	1341	2830	5749	3308	2979		3014				
						۵.				0410	0889	4853	4960 4946	5929	6163		5031				
			1.0460			599.48		1	0402.	0600	0089 0422	0660 0800	2199 2588	4627 5481	5052		6137	1.0460	. 1124		
-!) FUSELAGE			1.0180			* 80 80			.1770					2.200	. 4261			1.0180	3226		
575 688			9886	1 CO	- 3802	a	1		. 1660	0255	.0321	0340	. 25.50 27.50 25.50	.6570		.7786	.7958	9990		14 14	100
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- 0414		T VARIABLE	.9210	1574 1542 2111	2326 1474 0947	2		IT VARIABLE	.1120		. 0034 8030	1037	1647	.4289			.5027	.9210	2343	1992 2174 2736	345A
TABULATED PRESSURE DATA - 0A1' AMES 11-073(0A148)	.187	DEPENDENT	.8790	.0024 0462 1283	1775 1041 0293	ļ	4.544	DEPENDENT	.0700	SORO	0+03	1221		3702			.4381	.8790	1596	0470	2835
ED PRESSU		_	.8210	.2283 .2283	.2083 .4188 .4639	5486	•		.0460	133	1478	198+	2. 6. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	4732			.5161	.8210	0674	7967. 5191. 5421.	.0776
TABULATE	[A (2)	H	.7790	. 1431 . 2228 . 2881	.3487 .3824 .4158		BCIA (3)	SE SE	.0230	6	. 25.55 25.5						.6158	.7796	6082 7006	5.55 5.65 5.65 5.65 5.65 5.65 5.65 5.65	0775.
	It BETA	R FUSELA	.7290	1280 0674	.1095	160		R FUSELA	.0080	į	10/9.		57.5				.8239	. 7290	6450.	0958	71111.
3 5	+10	1) ORBITER FUSELAGE	.6520	.0527	.0921	0860	017	1) ORBITER FUSELAGE	.0000		1.3195						1.3195	.6520	101.	0790	1009
DATE 10 FEB	ALPHA (2)	SECTION (X/LB	PH1 70.000 90.000 105.000	110.000 120.000 135.000		AL1914 (2)	SECTION (X/LB	1Hd	. 000 20 . 000	±0.000 55.000	70.000 90.000	120.000 140.000	151.000	165.000	174.000	X/LB	PH1 .000	9.00.06 00.00.06 00.00.06	110.000

TABULATED PRESSURE DATA - CAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

•					3.1894		.5740	0452	9800.							
							.4970	0594	0715	1028 1028 1700	079₩	0641	0535			
30)					RNYL		.3780	0326	0090	1429 2000 3055	2092	2229	2472			
(XE8830)					708.14		.3010	0326	0387	1309 1863 5#11	4930	4524	3515			
					Q.		ĸ.	.0153	0175	3292 3460 3179		6010	5853			
			1.0460				.2040	.0430	0.00 0.00 0.00		3356	5552	. 6580	1.0460	. 1855	
USELAGE			1.0180		= 600.44		.1770			•		. 5330 . 5330	•	1.0180	2007. 2007.	
I'R ORB F			ა666.		σ		.1660	0000.	. 0933	. 1983 . 2296 . 4180	. 7865	9183	.7322	0666.		3653 3653
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE		RE CP	.9600	4273	1.1006	RE CP	.1580						. 8966	0096.	- 1768 - 2472 - 3844 - 2704 - 2947	2516 1891 1714 3868
04148)		DEPLNDENT VARIABLE	.9210	:255	MACH *	IT VARIABLE	.1120		. 1561	. 3253 . 3253 . 4168	.4378		.4307	.9210	0947 0091 1503 1705	2371 1463 0746 .0168
11-073	4.2.4	DEPLNDEN	.8790	9411.	-3.869 M	DEPENDENT	.0700	1707	.2181	.3264 .3363 .3408	.3514		. 34 12	.8790	0684 0662 0199 0488	1672 1555 0801 .1976
AMES			.8210	.4701			. 5460	2612	3334	. 4266 . 4565 . 4565	.4355		£014.	.8210	.0354 .0446 .1593 .1439	. 1505 . 3087 . 3152
	BETA (3)	ñ	.7790	.3995	BETA (1)	GE	. 0230	.3838	.5706	. 96.03 . 96.03 . 96.57 . 6.33	. 5636		.4671	.7790	. 1408 3105 0741	.3086 .3086 .3118 .3154
		R FUSELA	.7290	.2150		R FUSE_AGE	. 0080	.8207		.8243			.7143	.7290	. 1923 1804	0851 .1066
	017	LIORBITER FUSELAGE	.6520	. 0903	= 3.958	1) ORBITER	.0000	1.3170					1.3170	.6520	. 1519 . 1139 0522 0261	0681 .0324 .0605 .0688
	ALPHA (2)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (3)	SECTION (X/LB	PH1 .000	20.000 40.000	55.000 70.000 90.000 120.000	150.000	151.980 162.980 165.000	174.000	X/LB	PHI 40.000 70.000 90.000	110.360 120.000 135.000 150.000 165.000

3. 1884		57.0	0356		9																	3.189		57.0	049					
		.4970	8		.0763	1057	- 0903	0831	0502	63.63	2	0389		. .					. ,			•		. 1970	.0597		3.5	52.00	0670	R
ZNZ.		. 3780	200		. E21	í	- 2512	•	1991			2v18										1987 1	·	. 3780	0291		919		- 5303	
708.14		.3010	- 6150		- 9550		2679		4635 -	į		3303 -						,	ı			708.1%		.3010	0312 -		. 9762		. 3351	
4 .		.2510	. 1210		01₹	acat		_	6796	9	. 10/0:-	6700										•		520	1010.		. 127		¥695	
600.44		.2040	Ouf.7	0333	.0243	.0276	05.40	1155	5018		3050	6744	1.0460		1021							600.44		.2040	.0439	.0236	10.		- 1442	2207
• 600		.1770							10.01	4780			1.0180		3558							•		.1770						
O		.1660	100	0.00	. 1023	1306		01+N	.707.		.7869	.7685	0666.					5073	3958			•		.1660	6-60	.0860	966		1062	2559
1.1006	ר: כם	.1580										9 78-	9600	1	1547	- 3969	2714	EONS :	- 3226	- 2262	- 4093	1.1006	רר כם	1580						
MACH =	IT VARTABLE	.1120		0770	\$02 62 7	1939	֓֞֝֝֝֓֞֝֝֓֓֓֞֝֓֓֓֓֓֞֝֓֓֓֓֞֝֓֓֓֡֓֓֡֓֓֓֓֓֡֓֓֡֓֡֓֡֓֡	3696	₹ <u>19</u> *.			8044.	.9210	!	5,1175	- 1698	1917	C39E	2785	1498	0831	MACH .	IT VARTABLE	.1120		.0506	. 1033	CC 646	1981	Tacs.
.171 M	DEPENDENT	.0700	i i	- 1 A	1828	. 2385	ָ ֓֞֝֞֝֞֝֞֝֓֞֝֓֞֝֓֓֞֝֓֞֝֓֡֓֞֝֓֡֓֡֓֓֓֞֝֓֡֓֡֓֞֝֓֡֓֡֓֡֓֡	293	. 3272			3445	.8790		0792					0578		.234 M	DEPENDENT	.9700	. 1622	. 1229	1453	£60.		2122
		.0460	e de		. 65 10 10 10 10 10 10 10 10 10 10 10 10 10	.3343	3557	.3962	6424.			.4858	.8210		.0351 27.15	ស្ថិ		ğ	.1065	y =	.5052	•		.0450	.2654	٠ ا	8. 7.	21.5	Ç. Ç.	312
BETA (2)	æ	.0230		, 565. G 40.	500	<u>.</u>	יטיני. מיחת	.5620	.5304			.5036	.7790		07.1. 0.1.1	2147	.0296		. 2359	.3021	.3335	BETA (3)	¥	.0230	. 3783	.3698	57.14.	55.	ָּהְינִיהָ. מיניה:	1773
	1) ORBITER FUSELAGE	.0080	ć	, v			£003					.7093	.7290		.1657	2489	- 170		龙杏:	.0614	.0724		R FUSELAGE	.0080	2608.) 			.5377	
3.959	1) ORBITE	.0000		1. XX								1.3240	.6520		7537	0718	030		9000	£20.	.0509 .070	• 3.960	1 1 ORG I TER	.0000	3082					
A.PM (3)	SECTION (X/LB	Ē		*0.000	55.000	20.000	120.000	150.000	151.000	165.000 169.000	174.000 180.000	X/LB					10.000	120.000	150.000	165.000 180.000	=	SECTION (X/LB	PH1	20.000	*0.000	28.000 18.000	90.06	120.000

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TABULATED PRESSURE DATA - OA148 : AMES 11-073-1)

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

BETA (3)

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ALPHA (3)

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.5740 .4970 -. 9±23 -.0464 -.0561 .3780 -.2180 -.2522 -.2487 3010 -.3879 -. 3537 - 359± -.6530 .030 -.6422 -.5731 -.6719 .2040 -.3826 -.5874 -.5614 1.0460 . 2802 . 1428 .3310 3999 .170 1.0180 .4127 . 1660 .6367 .7460 .7552 .9990 -.5287 . 1580 .8356 .9600 - .4766 - .3415 - .3308 - .4434 CTPENDENT VARIABLE CP .1120 -. 1554 -. 0565 -. 2259 -. 2297 .3808 .4319 .9210 .0700 .2845 .3368 .8790 -.0760 -.0727 -.0965 -.1535 -.2992 -.2462 -.1495 .0460 .3856 94Ó4. .8210 .0281 .0406 .1198 .0579 .2800 .2800 .2866 3659 .0230 £74. £364. . 1327 - 1304 - 0293 - 1226 .7790 . 1831 .2840 .3130 .3115 SECTION (1) ORBITER FUSELAGE .0080 .6832 .7290 -.2256 . 1664 . 000C .1011 .1412 .0000 1.3082 .6520 .0583 .0997 .0907 PH1 140.000 150.000 151.000 162.000 165.000 169.000 180.000 .000 70.000 90.000 90.000 105.000 1130.000 1135.000 1565.000 1665.000 K/LB Ē

5740 .0180 .0512 .4970 -.2037 -.2037 -.2718 .0085 8700. -.0823 -. 1051 Z .3780 -.1282 -.1974 -.5662 .0391 .0659 -. 24B5 -.2320 769.1 .3010 .0316 .0412 -.1197 -.1663 -.5142 -.505+ -.5871 33.0 -.2733 -.3166 -.3329 .0693 .0695 -.6795 -.7290 . 20% o 1256 1253 1353 1435 1677 0717 - 0888 - 2396 -.6034 599.52 .170 5031 . 1660 .1378 .1750 .1750 .273 .2136 .2435 .2435 .2435 7682 .7480 -3.862 MACH - 1.0985 .1580 9280 DEPENDENT VARIABLE CP .1120 2457 2857 3001 3135 3528 .3629 .0700 25.00 20.00 256 .0460 3652 3826 4375 4704 4419 4419 3822 3261 BETA (1) . 0230 .5113 .5575 .6645 .6834 .6516 .6261 まる SECTION (1) ORBITER FUSELAGE .0080 .9443 .7739 8.035 .0000 1.2878 ALPHA (4) 20.000 25.000 26.000 26.000 26.000 150.000 151.000 165.000 165.000 X/LB

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									•	5. IGS		.574G	.0236	.0338							
600		0585							1	•		.4970	.0155	0085	- 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0710		0451	9413		
	99/5.	2118 -			•					RAYL L		3786	9040	.0309	2658 3632			2039	2032		
		. 3955								709.7		3010	.0382	.0155	2443			. 1404	- 3800		
		6415								•		0.65	.0734	.0521	3221			6303 -	7148		
	940 040	7045	1.0460	.3099						52		.2040	. 1220	#111. 1256	1031 0703 0048			6027	. 7390	1.0460	.3122
	 67-1-	•	1.0180 1	.4939						* 599.52		.1770			•		.4133	•	·	1.0180	.5030
	. 1660	.6957	1 0666.			F164.	3861			ø		. 1660	£ 7.	1446	51.51.0 51.0 67.0 67.0	/ccs·	.089.	7457	100	0666.	
м С	.1580		.9600	. 1373	2801		3075 -	2430 4.4111		1.0985	F CP	.1580							.825	.9600	1102
VARIABLE CP	.1120	.3677	.9210			- 7914		- 1502	! !		VARIABLE	.1120		1654	2009. 21.29. 21.29.	.3337	.3599		.3762	.9210	0269
DEPENDENT	.000	. 2362	.8790		0784			- 0879		. 181 MACH	DEPENDENT	.0700	67.70		2692 2005 2005 2005 2005 2005	.2201	. 2258		9480 8	.8790	.10171
5	. 0 460	.3144	.8210		- 0013		1145		.498 <i>2</i>	-	٥	.0460	2700	3669	3.555 3.555 3.555 5.555	.3202	.3214		.3131	.8210	1020
	.0230	.3602	.7790		. 3970 - 2858 - 8585		.1643	. 1693	. 2692	(S) A	W	.0230		. 53.0 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	5772 5772 7874 6052	.4776	.4156		3778	.7790	.2080
FUSELAGE	0000	2686	.7290	5723.	. 3269 -		1841	0559	.0047	1 BETA	FUSELAG	.0080	8	5 5	6349				5570	.7290	7452.
110RBITER FUSELAGE	. 0000	. 2878			- 19890 - 09890 - 0890		. 1618	.0032	- 1 990.	8.941	ORBITER	0000		1.2891					1,2891	.652v	ý. Šú
SECTION (1)	X/LB	PH1 180.000			70.000		•	'		ALPHA (4) =	SECTION (1) ORBITER FUSELAGE	X/LB			70.000 70.000 70.000	120.000	150.000	165.000	169.000	•	PH1 . 000

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TABULATED PRESSURE DATA - DAIH8 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					3.1893		.5740	.0198	.0366							
					•		.4970	.0095	0343	1923 1494 0902	0489	0461	0600			
					RN/L		.3780	.0387	0093	2684 3221 2439	1916	2003	2241			
					T.69.77	,	.3010	.0402	0206	2785 3122 6257	4399	3911	4050			
					•		.2510	.0703	.0189	4630 4630	7283	6738	6332			
		1.0460			599.52		.2040		0.059	. 1808	3192	6090	7224	1.0460	.3156	
		1.0180			60		.1770				3386	3793		1.0180	. 3800 . 3800	
		0666.	596	- 4307	ø		. 1660	1479	1430	. 1336 . 1336 . 1336	.6170	.7115	.7190	.9990		5331 4625
	KE CP	.9600	4151 2891 3607	3747 3167 2827 4317	1.0995	RE CP	. 1580						\$£.	9600	1117 1758 4303 3316	5081 3702 3752
	DEPENDENT VARIABLE	.9210	2125 2392 3137	3368 2623 2201 1595	MACH	DEPENDENT VARIABLE	.1120		. 1445 1664	1.03 1.03 1.03 1.03 1.03	.3362		.3692	.92:0	0577 .0053 2700 2866	3923 3506 3198
181	DEPENDEN	.8790	1787 1787 2589	2728 1792 1154	, 4,238 M	DEPENDE	.0700	040v.	50.00 50.00 50.00	1398 1398 1398	9161.		. 2293	.8790	0091 .0304 1614 2263	3422 2591 1943
		.8210	.0412 .0166 .0597	. 1020 . 3500 . 5396			.0460	.3667	3336	. 2639 . 2369 . 2368	2910		.3122	.8210	. 1952 . 1133 . 0208 - 0220	0349 .2997 .4255
BETA (2)	GE	.7790	3951 1929 .0143	.1287 .1782 .2339 .2860	3085 RFTA (3)	,	. 0230	.5057	1909 1905	25.54 25.54 25.54 25.54 26.54	. 3775		.3782	.7790	.2012 .2144 3320 1299	. 2332 . 2332 . 2914
	R FUSELA	. 7290	3415	1140	0 20 20	R FUSEL	.0080	.9357		.4871			.5333	. 7290	.2600 3211 2003	0804
■ 8.041	110RBITER FUSELAGE	.6520	1124	0389 .0456 .0695	. 0752 .	0.0	0000.	1.2741	!				1.27	.6520	.2438 .2565 0971 0301	.c978
ALPHA (4)	SECTION (X/LB	PHI 70.000 90.000 105.000	110.000 120.000 135.000 150.000 165.000	180.000	. <u>2</u>		PH1	20.000 40.000	25.50 20.00 90.00 90.00	150.000 150.000	151.000 162.000 165.000	17.000	X/LB	PH1 .000 .00 .000 70 .000 90 .003	119.063 126.000 175.000 150.003

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AMES 11-073(0A148) -140A/8/C/R ORB FUSELAGE

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BETA (3) .

8.040

ALPHA (4) .

			3.1892		57vg	5415.	.247E								•
			•		.¥970	±960·	.0988	2355	2817 471			1043	0530	•	
			RN/L		.3780	11.	.1400		1924		9	- 2445	1892		
			711.19		.3010	.1106	.1190	1131			- 0883	. 57±2	. 4260		
			•		.2510	.1270	.1379	•	2979		7821	7331	6830		
	1.0460				.2040	. 1867	. 1855 . 2102		1013			. 6559	. 7498	.0460	- 8070 - 8070 - 8070
	1.0180		- 599.10		.1770					•	, 469B	1867 1874		1.0180	. 5571 5674.
•	ე666.		ø		. 1660	.20%2	.2530 .2530	4.00.00 4.00.00 5.00.00	2482	2000	. 7487	7551	.6593	0666.	+430 2762
LE CP	.9600	4616	1.0970	LE CP	.1580								. 8050	.9600	
T VARIAB	.9210	2520	MACH	T VARIABLE	.1120		.3189	. 287. 1789. 789.	283	£	.3087		.3130	.9210	. 0116 . 0598 . 1771 . 1771 . 2580 . 3521 . 3521 . 3521 . 3521 . 3521 . 3521
DEPENDENT VARIABLE CP	.8790	.0147	-3.843 MA	DEPENDENT	.0700	. 355t	.3547	3782	28.	<u>}</u>	. 1265		.1381	.8790	1750 1760 1774 1774 1774 1774 1774 1774 1774 177
	.8210	.4858	-3.		.0460	\$89¥.	. 5322	14045 CRV	3907	. 2826	.2151		.2165	.8210	. 1786 . 2063 . 1913 . 0605 . 0650 . 071 . 1780 . 2567 . 48.38
병	.7790	.25767 3725.	BETA (1)	H	. 0230	.5366	.6802 .747.	.7019	5657	8044.	.3113		.2361	.7790	. 2733 . 3051 . 3051 . 3972 . 3972 . 1441 . 0613 . 0698 . 0698 . 1651 . 1651
R FUSELA	.7290	.0033		R FUSELA	.0080	1.0561			.7047				-4102	.7290	. 3303 3861 2940 1924 1689
1 JORRA TE	.6520	.0630	• 11.975	1) ORBITER FUSELAGE	.0000	1.2312							1.2312	.6520	. 3560 . 3560 1350 0711 1811 0593 . 0339
SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 189.000	ALPHA (5)	SECTION (X/LB	PH1 . 980	20.000 40.000	55.000	90.000	120.000	150.000	162.000	174.000 174.000	X/LB	PHI - 000 - 00

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		r D

57.6 88 2882 5740 .4970 .1013 -.3248 -.3187 **10** -.0472 ..0911 -.0389 .4970 FOV .3780 . 199 -.2024 -.2623 -.6920 .0973 -. PEEE -. 1894 -.1755 3780 1166 .3010 -.2022 -.2291 -.5649 -. 5962 .080 -. 4484 -.4113 .3010 .1156 -.2846 -.3563 -.4071 .8510 .1408 .1007 -. 7808 -.7322 -.6771 .2510 .1371 . 1987 . 1736 . 1736 . 1643 . 1077 . 0416 - . 1897 .2040 -.6427 ..7633 1.0460 .3412 .1981 . 1865 . 1465 . 1153 . 0794 . 0671 - . 1464 .2040 599.10 .170 .4047 .4287 .0180 5621 4523 .1770 . 1660 2153 22105 2240 1495 1667 1945 3576 6745 .7023 6862 9990 -.4686 .1660 2056 1849 1693 0778 1103 1445 2997 -.4206 -.3723 -.3349 -.4476 DEPENDENT VARIABLE CP .7631 .9600 -.0783 -.1432 -.3468 -.2483 -.3775 1.0970 . 1580 DEPENDENT VARIABLE CP .1120 9210 .0167 .0541 -.2617 -.3040 .1120 .2116 .1854 .0974 .1481 .1853 ACH MACH .0700 3578 3429 3509 2708 2088 1895 1145 . 1232 . 1658 - 1770 - 3106 四 8790 -.3209 -.2337 -.1907 .0509 <u>18</u> .0700 3416 3029 2753 1592 1156 0901 0625 . NS 4748 4730 4638 3778 3778 3220 2937 2395 77.25 .1799 .2091 -.1808 -.0943 2058 8210 . 3175 5524 . 4651 . 4282 . 3843 . 2654 . 2220 . 2220 . 2007 .0230 3 655 657 657 657 657 677 881 881 881 881 881 881 881 2995 2608 .2784 .3045 -.4973 -.3877 .7790 0419 1156 1629 2382 2647 6291 6003 5523 5523 3908 3705 3223 110RBITER FUSELAGE 110RBITER FUSELAGE .0080 1.0602 -.4291 -.3046 .5667 .4016 .7290 -.1368 三萬. -.0882 -.0083 .0090 1.0443 11.977 .0000 . 34.70 . 34.70 . 11.56 . 0729 . 2358 .6520 .0366 .0913 .1011 1.2225 0000 20.000 55.000 70.000 90.000 120.000 1140.000 151.000 165.000 165.000 183.000 SECTION 40.000 70.000 90.000 105.000 110.000 120.000 155.000 165.000 K.PHA C SECTION 20.000 20.000 40.000 55.000 76.000 A PHA Œ Ŧ

1743

0380

. 952v

0357

.0516

- 35% - 1-55 - 1-55

. 3780 . 3585 . 358

-.2761 -.6108

-. 3285 -. 4064 -. 4676

4172

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(XEBB30)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

4.250

BETA (s. .

ALPHA (5) - 11.977

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SCITION I HORBITER FUSELAGE	11040116	ER FUSELA	lGE		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
X/LB	.0000	.0000	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	500.	.3010	3780	0784.	5740
PH1 140.000 150.000			.2725	.2064	.0733	.2957		.5901	.3.0¢	2937 5930	7785	4971	189	- 889.	
165.900 165.900 169.900							į	6819	.3592	£0.0	6983	4183	1702	0483	
180.000	1.2225	.3768	.2580	.2300	. 1142	.3130	.7571	.6840		7649	6826	4346	2028	0577	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.6180	1.0460					
PH1 - 000 - 000	.3217	.3304	.2660	. 1599	.0818	.0096 8840	0836		558. 558.	.3384					
70.000 90.000 105.000	1110 0495	4142 2978	- +699 +.3388 1186	1458	3456 3815 5320	3317 3158 4611	4210 3661 4609								
120.000 135.000 150.000	. 1005	1074	. 0294 . 1450 . 3476	0648 .2376 .4714	3817 2721 1998	5184 3592 3362	6272 4163 4033	0 0 0 0 0 0 0							
165.000 180.000	.1104 .0785	0343	544.5. 2166	.5276		2958	4670					=:			

TABULATED PRESSURE DATA - DAIWB (AMES 11+073-1)

(XEBB31) (05 AUG 75)

(XEBB31) AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE REFERENCE DATA

DATA	SPDBRK = 35.000 L-ELVN = 10.000 MACH = .900	RN/L = 3.5777		3780 4970 5740	2200	9140-	Ř	.055/ .0421 .0897 .0256 .0632		.0119 .0364	\$050 E500			
PARAMETRIC DATA	16.300	- 1059.2		3010	.0746	1279	96.5	000 000 000 000 000 000 000 000 000 00	0763	0249	0086			
	RUDDER = BOFLAP = R-ELVN =	۵		0.2510	•	•		6581 55817		37766	7690			
		600.28		0402.	2134	24.5	2845 2445	- 305	1612 2745	8373	9+35	1.0460	. 1081 . 0558	
				0771.					•	3872		1.0180	.3010 .2314	
		ø		. 1660	2222	2560	1974	0688 1859	.6578	7166	.6390	.9990		2747
		71668.	BLE CP	. 1580							.8278	9600	.0006 0769 2248 3944	3901 2707 2569 2934
	228	MACH	DEPENDENT VARIABLE	.1120		5103 576.9	.0622	3230	.4162		.4150	.9210	1780 2072 3767 3162	3345 1901 1454 0948
	1076.680b IN. .0000 IN. 375.0000 IN.	-3.852 M	DEPENDE	.0700	1773	2122	. 1279	3315	3078		.3872	.8790	2371 1519 1668 2185	3757 2435 1432 0729
	1076. 375.			.0460	119	-1132	.2239	.3101	5/64.		.4662	.8210	3147 2950 .1466 .1872	344. 1649. 1649. 1699.
C	XMRP YMRP ZMRP	BETA (1)	AGE	. 0230	0756	0841.	40.04	.5452 .6347	.6373		.5757	.7790	2297 2168 .0458 .1141	.3487 .357 .357 .332 .3123
i titilite Ovi	S0.FT.	-3.977 E	ER FUSEL	. 0080	. 3539			.7324			.00	.7290	1820 0535 0006	. 1289
?	2690.0000 474.8300 936.0680	e	1108811	.0000	1.1910						1.1910	.6520	1285 2348 . 0230 . 0484	.0594 .0657 .0533
	SREF = 6 LREF = BREF = SCALE =	ALPHA (1)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI .000	40.000 55.000	70.000	120.000 170.000	151.000	165.000 165.000	180.000	X/LB	76.000 105.000 105.000	120.000 135.000 150.000 165.000

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354	ED PRESSURE DATA - DAINB (AMES 11-073-1
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	3.5777		574G	010	014								3.5777		3740	0194 . 0058	
	•		.¥970	5410.	0058	.0892		.0456	.0471	. C459			•		.¥970	.0043	7.70 1.00 1.00 1.00 1.00 1.00 1.00 1.00
313	RNYL		.3780	0296	0423	.0445	36. 36. 36.	.0201	.0215	.0220			PR/L		.3780	. 0287	.0135 0376 .0176
1XE8831	1059.2		.3010	0629	0738	0420	0304 1839	0463	0298	0282			1059.2		.3010	. 0504	0807 2070 23*2
	•		.2510	1909	3408	7610	7241	8298	7332	7241			•		.8310	1781	8325 7573 8155
	600.28		.2040	2165	. 356. 196.	. 3229		7947	8 .22	92.7	1.0460	. 191. 1920 1931	600.28		.2040	2339 2395 3202	
USELAGE	- 600		.1770					•	3120		1.0180	. 3340 . 1962	- 600		.1770		
-140A/B/C/R ORB FUSELAGE	0		. 1660	2126	3007	1747	1585 . 0603	.5791	.6861	.6784	0666.	3313 3194	ø		. 1660	2101 2266 2716	2376 2560 0637
-140A/B/C	7.1899.	RE CP	.1580							9 .	.9600		.89977	LE CP	.1580		
	MACH =	IT VARIABLE	.1120	5	2107		.0144 .2314	.3719		.4192	.9210	1768 2019 3945 4274 4436 2466 2466	MACH .	T VARIABLE	.1120	2181 1987 1546	0882 0800 1210
AMES 11-073(0A148)	187 H	DEPENDENT	. 0700		1999		. 2222	7757.		1,287.1	.8790	2167 1608 2346 2346 5144 5144 2423 2423	.269 MA	DEPENDENT	.0700		0680 .0011
AMES			.0460		1155		34.76	.4596		.4725	.8210				.0460	1048 1306 1365	
	BETA (2)	IGE	. 0230	0691	. 1033 . 1033	200 m	.5346	.5380		.5936	.7790	- 2236 - 2163 - 2163 - 2268 - 1532 - 1532 - 3066 - 3281 - 3281	BETA (3)	띯	. 0230	0839 0806 0367	
		R FUSELAGE	.0080	.3591		1	.5815			.8302	.7290	1941		R FUSELAGE	.0080	01 W.	.4233
	-3.975	1) ORB! TER	.0000	1.1950						1.1950	.6520	1264 1923 .0383 .0383 .0736	-3.986	1) ORBITER	.0000	1.1834	
	ALPHA (1)	SECTION (X/LB	PH1 000.	40.00 00.00 00.00	70.000	120.000 140.000	150.000	152.000 162.000 165.000	174.000 180.000	87/X	741 20.000 20.000 105.000 135.000 150.000	ALPHA (1)	SECTION (X/LB	PH1 .000 20.000 46.000	70.000 90.000 120.000

DATE 10 FEB	EB 76		TABULATED		PRESSURE DATA	4 - 0A148	B (AMES	(AMES 11-073-1	<u>.</u>					PAGE	8
				AFE	AMES 11-073(0A148)		-140A/B/C/R	8	FUSELAGE			CXE	(XEBB31)		
ALPHA C 1	1) • -3.	-3.986 B	BETA (3)		4.269				•						
SECTION	(1) ORBITER	ER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	BLE CP								
X/LB	.0000	.0080	.0230	.0460	0700	.1120	. 1580	. 1660	0771.	.2040	50.00	.3010	.3780	0784.	5750
PHI 140.000 150.000			.5162	. 4097	- 2859	.3081		*79¢	**	8051 8845	8600	0377	0060	1610.	
165.000								.6336	.2197	8578	7467	0129	0025	.024	
180.000	1.1834	6118	.5870	7174.	.3847	1414.	.7569	9099.		さあ.	7639	0068	.0055	.0266	
X/LB	.6520	.7290	. 1790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH .000.000	1293 1597 .0098 .0325	1957 0553 0090	2297 2135 0050 .0591	3384 3274 .0584 .0686	- 2312 - 1652 - 2901 - 3718	1650 2075 4795 4730	0107 0808 2817 4157		.3069 . 2206	. 1030					
120.000 135.000 150.000 165.500	.0566 .0597 .0590	.1095 .1384	.1557 .2892 .3029 .3029	.1001 .3711 .5292 .5242	6455 4784 3396 1171	5922 4672 4118 3360	6419 4944 4410 3113	3309 3309							
ALPHA I 2)	•	002 BE	BETA (1)		870 MACH	a	.69780	0	= 598.63	29:	•	8.0901 ×	DENT.	•	3.5706
SECTION (1) ORBITER FUSELAGE	GE		DEPENDENT	T VARIABLE	LE CP							•	
X/LB	.0000	0800.	.0230	.0450	.0700	.1120	. 1580	. 1660	0771.	.2040	5 5 5	.3010	.3780	0794.	S. C.
PH1 - 600 - 000	1.2037	1419.	696			. 1607	•	\$68 \$68	• •	1881	1694	0721	02.5	.0280	.0303
25.00 25.000						. 1213	. •	2213	•	2439	2695	89	0332	.0047	.0253
76.080 90.000 120.000 140.000		٠١٤٢.		.3164 .3164 .3980	. 1664 . 1963 . 2849	.1036 1448 1465	•	0384		2		0900 1225 2063	57:0. 47:0. 85:00	2000 2000 2000 2000	
150.000			.5310	3975	. 3065	3446		.627		30.5	9817	2374	1410.	5700.	
165.000 167.000 17.000							.7810	.6756	9446.	9108	8587	1218	=======================================		

DATE 10 FEB	B 76		TABULAT	ED PRES	TABULATED PRESSURE DATA	•	0A148 (AMES 11-073-1	11-073-1	-					PACE	3
				AMES	3 11-073	11-073104148)	-140A/B/C/R	8	FUSELAGE			(XEBB31)			
ALPHA (2)		.002 BE	BETA (1)		-3.876										
SECTION (130RB17ER	ER FUSELAGE	IGE		DEPENDE	DEPENDENT VARIABLE	ALE CP								
X/LB	.0000	. J.180	. 0230	.0460	.0700	.1120	. 1580	1660	0771.	.2040	<u>8</u>	.3010	3780	.¥970	5740
PH1 180.000	1.2037	.7105	.4592	.3549	.2931	.3388		.5866	•	-1.0489	8530	e+60	• 6 00.	.0530	
87/K	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
71 20 20 20 20 20 20 20 20 20 20 20 20 20	0279 0830 1113 0570 0527		1355 1233 0234 .0573 .1275 .3046 .3046 .3046	- 2284 - 1300 - 1516 - 2107 - 2836 - 2933		1937 1951 3696 3132 3050 3050		3520 2704	2855 2855	. 0720					
180.000 ALPHA (2)	9100	.000 8E	2673 (5) BETA (2)	. 4039	₩ +81.	MACH =	. 89780	o	• 59	596.63	•	1060.9	1/NB	•	3.5706
5	130881	35			Z	NT VARIABLE	X.E. CP								
X/LB	. 0000	. 0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1730	.2040	<u>8</u>	.3010	.3780	.¥970	ere.
PH1 .000	1.2110	523	97.0	.0048	0839		·	1559		1575	1809	- 0630 -	.0158	.0267	.0316
40.030			2303	038c.	0782	1699		. 1913		10.14 10.14 10.14	2781	0483 -	.0000	.0123	E 33
25.08.05 26.08.09 26.08.09		.5687	. 3833 . 4279 . 4851	. 1528 . 1986 . 3053	0659 0659 0. 1461.	. 0267 . 0557 . 0557 . 158	• •	- 1163 - 1069 - 0941			7312 7140 6883	0768 1122 1975	.0000. 1110. 1110.	989. 98.70. 98.70.	
140.000			. 4925	.3659	. 2695	.3086		2		4955	9500	1669	.0231	. 0227	
151.080 162.080 165.080 169.000			•					6,469	5.05. 0.75.	9167	8589	0667	9610.	14.00	
174.666 180.00	1.2110	.7038	.4786	.3720	. 3030	.3459	.7696	.6267		9367	8586	04.7B	.0205	.0189	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	9880	1.0180	1.0460					
PH1 .009 40.000	0269 0623	07%	1495	2591	2114	1823	0052 0874		. 3279 . 2287	. 0256					

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					* 1060.9 RN/L * 3.5706		0+T2. 0794. 08TE. 010E. 0125.	175907460198 .0274 .0248.	26490538 .0016 .0250 -0559	77890913 .0104 .0387 78361331 .0193 .0381	-1192 .0137	-							
		1.0180 1.0460			= 598.63 P		.1770 .2040		-	30.00 30.00			-1.0568 -	1.0180 1.0460	.3079 .1067				
		.1 9886.	į	2553 	ď		. 1660	- 1563	. 1759 	1804 1768 1856	Uč11 . 4535		.6117):1 0666.		•	. 198	2980	
	BLE CP	.9600	2095 3939 3939	3834 3689 3569 2817	.89780	BLE CP	. 1580						2115.	.9600	0097	2657	4151	98469	1.198
	DEPENDENT VARIABLE CP	.9210	4424 4229 4757	4819 3467 2961 2707	MACH =	NT VARIABLE	.1120		1152	0750 0385 0270			.3355	.9210	1803	- 1962	4888 5444	6019	4720
18	DEPENDE	.8790	2526 3239 4388	5049 3967 3067 1021	4.247 M	DEPENDENT	.0700	0966	1023	0248 0248 0144	. 2223		.2875	.8790	2019	3082	3924	6380	3987
•		.8210	.0765 .0921 .1269	.3995 .4508			.0460	0064	0180 0180	.0466 .0480 .0843	. 323.		.3582	.8210	2599	.0295	.0345	.0934 8635	4320
BETA (2)	AGE	.7790	0481 .0310 .0997	. 1743 . 2690 . 2708 . 2708	BETA (3)	AGE A	. 0230	.0587	. 1537	. 31.25 . 31.25	7185.		T074.	3677.	1421	0616	.0053	.1222	7.93
.000	ER FUSEL	.7290	2131	0126 .0592	010	ER FUSEL	.0090	.4937		.4105			.6829	.7290	0727	1827	1126	0197	.0576
•	1 10RB1 T	.6520	1193	0229 .0085 .0109	•	1.10AB1Ti	.0000	1.1939					1.1939	.6520	0255	3	054 0	0173	.0082
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	70.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 . 000	400. 600. 600. 600.	20.000 20.000 20.000	140.000	151.000 162.000 165.000	159.000 174.000 180.000	X/LB	PH1 000.	70.030	90.000 105.000	120.000 135.000	150.000

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2) = (2	010		. A	AMES 11-073(0A148)	7310A14B)	-140A/B/C/R ORB	C/R ORB	FUSELAGE	tat		(XE8	(XE8831)		,
	ğ			4.647							•			
J	1 03CL	al Se		DEPEND	DEPENDENT VARIABLE	ABLE CP								
	.7290	.7790	.8210	.8790	.9210	.9500	. 9990	1.0180	1.0450					
	+980 ·	. 283 828	8424.	1764	3993	2961						•		
<u> </u>	3.984 BE	BETA (1		-3.872	MACH	.89870	G	1	909	•				
핕	1) ORBITER FUSELAGE	t GE		DEPENDE	DEPENDENT VARIABLE	BLE CP	,		9. 10.	.	# 1059.5	SAV.		3.5709
.0000	.0080	. 0230	.0460	.0700	.1120		.1660	1770		8	•	i		
									. 25	9	.3010	.3780	. 1970	5740
1.1958	.6647	.2621 .2621	1027	.0156 .0024	0620		0914		1044	1309	0866	.0027	.0707	.0852
		1004	27.85	. 1784	0006 0942		0844		1290	1722	0396	.0192	. 0600	.1053
	.6831	.5188 .5188 .4933	3119	. 1930 . 1930 . 2192	.1538		000. 000. 		1330	5744	1488 2033	0289	.0272	
		157	6				0.03		2000 1000 1000 1000 1000 1000 1000 1000	6160		0879	0616	
			9069.	, cube.	. 2711		.6034	.2760	4627	9559	4282	.0036	0215	
						ļ	.6337	30.5.	9632	7733	4169	. 0320	0125	
•	.5709	.3409	.2605	.1973	.2631	.7385	5388	•	-1 00us	6170	9			
·	.7290	.7790	.8210	.8790	.9210	.9600		1.0180		1106.	.6/53	* *	0038	
•	.0123 -		1580	1607	Š									
ii	. 4556	0342 1270 0368	1322 .0726 .0916		1768 3724 3156	0762 1531 1989		. 3632 . 2993	. 1841 . 0639					
					3251		1864							
i	. 1815	9051. 6777.	1097				2559							
ľ	6810.	.2309		3335	2216	2863 2716								
•	9400	. 1918	.3504			2734								

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£63	1	3.5709		.5740	.0872	.1135	,							3.5709	į	1	.1080	
PAGE		•	•	0784.	.0675	.0561	.0057 .0106 .0143	8000.	5.00.	.0058				•		0/6 4 .	.0432	.0025 .0102 .0043
	3	FN/L		.3780	9800.	.0211	0360 0270 0213	.0405	.0360	.0320				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5180	.0054	0317 0150 .0148
	(XE8831)	1059.5		.3010	0485	0440	1377 1557 2658	3728	2312	1751				1059.5		3010	0611	1400 1537 2754
		Q.		.2510	1343	1932	6636 7218 7048	1.0401	- 9456	9291				•		5189.	1411	7240 7938 7794
				.2040	1023	1160	1617 2044 3171 3926	5120 8848 -	9811	-1.0231	1.0460	.0401		599.00		. 20±0	1082 1874 1432	2028 2608 4082 5199
_	FUSELAGE	= 599.00		.1770					#1#2·	•	1.0180	.3577 .2644		* 90		.173		
11-073-1	/R ORB FI	o		. 1660	0848	0970 0897	0725 0685 0555	.5201	מממ	.5807	.9990	# # # # # # # # # # # # # # # # # # #	27.0	C		. 1660	0856 0993 0979	1194 1293 1312 . 0185
(AMES	-140A/B/C/R	.89870	LE CP	. 1580						.7236	.9600	. 0092 0781 2507 2544	3153 2631 3195 2719	.89870	BLE CP	. 1580		
- 0A14B	0A14B) -	MACH	T VARIABLE	.1120		0592	. 0333 . 0585 . 0809	3516		.2752	.9210	1898 1861 4661 4590	5339 4219 3508	MACH .	NT VARIABLE	.1120	0637	0037 0037 .0062 .1285
TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	11-073(04148)	.184 MA	DEPENDENT	.0700	1910	0066	0969 .0917 .0964	.1827		. 1999	.8790	1720 1053 2758 3595	5491 4526 3552 1594	4.243 M	DEPENDENT	. n700	.0250	
ED PRESS	AMES			.0460	100	1103	. 1893 1.893 1.893	.2751		.2730	.8210	1727 1492 .0394 .0416	. 1789 . 3930 . 4536			.0460	. 1 061 . 0794	. 0857 . 0768 . 0935 . 1660
TABULAT	! !	BETA (2)	띯	.0230	0200		3916 3979 4109	.3852		.3602	.7790	0662 0430 1413 0365	. 1905 1. 1905 1. 1905	BETA (3)	AGE	. 0230	. 2017 8205. 8205.	2752 2756 2766 3283 3283
			R FUSELA	.0080	į		.5374			.5548	.7290		1365 0307	3.979 8	ER FUSELAGE	.0090	.6527	.3786
1 2		3.983	11 ORBITER FUSELAGE	.0000	i	1.5034				1.207.	.65¢v	.0562 .0+39 2310	1187 0550 0572 0511	= 3.6	1) ORB 1 TER	0000	1.1852	
NATE 10 FFB		ALPHA (3)	2 8	X/LB			70.000 96.000	140.000	151.000 162.000 165.000	159.000 174.000 180.000	X/LB	PH1 .000 .000 70.000 90.000 105.000	110.000 170.000 130.000 150.000 155.000	ALPHA (3)	SECTION (X/LB	PH1 20.000	55.000 76.000 96.000

DATE 10 FEB 76

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		.5740										3.5677		.5740	. 1513	. 1883					
		.4970	.0057	6100.	0026							•		.4970	.1207	.1178	0049	1626	0399	0240	
		3780	.0403	. 0292	.0356							FRV7L		.3780	***0.	.0733	0872	2592	1461	- 121	
		.3010	-, 3238	2080	-,2326							- 1060.2		.3010	0101	. 39	1855	4635	4507	4936	
		.2510	-1.0410	8054	9468							•		.2510	0559	0634	+584	6553	6518	9.0.	
		.2040	6810	9866	-1.1101	1.0460	. 1251					598.57		.2040	0334	5.0272		75.	4830	-1.0309	
		.1770		. 1535		1.0180	.3653)				- 59		.1770					<u> </u>	2670	
		. 1660	.4312	. 5544	.5657	.9990			3460			σ		. 1660	 	9.0.0	. 65. A.	2044	.5807		.5990
	BLE CP	.1580			.6675	.9600	0009	2470 3606 4998	6601	0.75 0.75 0.05 0.05 0.05 0.05 0.05 0.05	0663	. 89807	RE CP	.1580							.7020
	NT VARIABLE	.1120	. 2083		.2658	.9210	1869	5012 5087 5855	6385	.5155		MACH	NT VARIABLE	.1120		1003	1502	1955	.2018		
2	DEPENDENT	.0700	.1386		.1913	.8790	1738	4121 5377	6305	1.44.17		-3.860 M	DEPENDENT	.0700	56	1863		. 1463	.1128		
•		.0460	. 2392		.2¥18	.8210	1766 1348	0050 0048	. 0907	37.74.	.3315	3		. 0460	2175	. 295 7 15 7 15	3055	.2458 .2458	. 1839		
OCTA (2)		.0230	. 3328		3531	.7790	0608	1444	1840.	1760	. 2054	BETA (1	AGE	. 0230	.3652	1926	62.03.	.4037	.2928		
Ø 070	7	.0080			. 5362	. 7290	. 0052	3947	1319	6170	.0129	8.057 BI	1) ORBITER FUSELAGE	.0080	.8018		É	e di		•	
N	1108811	.0000			1.1852	.6520	.057 <i>2</i>	2274 1693	0950	0506	0614	.89		.0000	1.1578						
v. onv (2)		X/LB	PH1 140.000 150.000 151.000	162.000 165.000 169.000	174.000 180.000	X/LB	PH1 .000	70.000 30.000 105.000	110.000	150.000	180.000	ALPHA (4)	SECTION (X/LB	PH1 .000	45.000 45.000	70.000	120.000	150.000	167.000	169.000 174.000

DATE 10 FEB 76	B 76		TABULATED	_	PRESSURE DATA - DAIWB (AMES 11-073-1	4 - 0A14	B (AMES	11-073-						PAGE	£89
				AME	AMES 11-073(0A148)		-140A/B/C/R	88	FUSELAGE			(XE8831)	831)	•••	
ALPHA (4)		8.057 BI	BETA (1	1) = -3	-3.860									,	
SECTION (1) ORBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	. 0000	.0000	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PH1 180.000	1.1578	551+.	.2122	.1685	.1036	.2004		.4958		9012	6382	4938	1213	0037	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	0096	0666.	1.0180	1.0460					
PH1 .000 70.000; 90.000 105.000;	.1470 .1508 3143	. 1940 - 1940 - 1946	. 1524 . 1524 . 1524 1524	0838 0483 .0342 .0233 .0328	1220 0553 1767 2187	1919 1796 3928 3489	0035 0810 2191 4187	į	.3959	.0567					
150.000 150.000 150.000 165.000	3120 1586 1411 1227	1387	0730 0802 0880 0808 0808	.0101 .1832 .2672	3939 4248 3459 0922	3633 2936 2616 2011	3537 3109 2871 2663								
ALPHA (4)	•	8.05+ BE	BETA (2)		.187 H	MACH .	.89807	o	200	598.57	۵.	• 1060.2	PRIVL :	6	3.5677
SECTION (110RBITER FUSELAGE	1GE		DEPENDENT	IT VARIABLE	RE CP								
X/LE	.0000	0800.	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
PH1 .000	1.1649	.8143	.3701	.2314 0.000		Ş		0031		0233	0625	0115	.0513	. 1243	. 1591
40.000 80.000			7444	35.4°.	1421	0.00		0.00			1140	0317	.0523	.1077	.1872
70.000 90.000 120.000		.4882	.3959 .3758 .3342	1958 1958 1863 1837	6680 6680 6680			0371 0371 1368		1499 2503 3578	5844 6881 7159	2287 3227	0855 0876 1218	0197 0171 0632	
140.000 150.000 151.000			1475.	.1788	7+60.	. 1931		±66±.	Ē.	8388	B422	4510	- 0289	0153	
162.000 165.000 169.000								.5573	-	-1.0372	6569	4387	. 0265	.0060	
180.030	1.1649	.4051	.2372	. 1632	.1131	.2120	. 503c	.5330	•	-1.1376	6766	3330	.0190	.0057	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PHI .000 40.000	. 1575	.0982	.0232 .0 ⁴ 80	0859 0484	1245 0587	1854 1956	.0007		.3975 .2009	.1320					

(XE8831)

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FISELAGE

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- 1556 - 0135		.7290		.8210	.8790	.9210	.9500	9990	1.0180	1.0460					
-2556 - 0.135		6327		111	2379 3257 4160	4283 3884 4301	3695 5622 5503	i							
SECTION C1956 C1964 C1794 C1795 C1			0136	.0481	5343	4423	4339	3010 2524							
BETA (3) = 4.245 MACH = .089807 Q = .598.57 P = 1060.2 RAVL = 3.58 RAVL		1347	. 0966	 182	.3794	3703	.3574								
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FUSELAGE ONE OF CREWINGENT VARIABLE CP ONE OF CREWINGENT VAR	-			Ħ			. 89807	σ		.57				•	7.8877
- 7991 - 3560 - 2194 - 1199 - 10901 - 2000 - 1160 -	E		AGE		DEPENDE	NT VARIA									
. 3300	.0000	.0080	. 0230	. 0460	.0700	.1120	.1580	.1660	0771.	. 2040	.2510	3010	3780	4970	77.50
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. 0963 . 0212 0922 1231 1766 0010 . 4072 5816 3255 0927 3125 4398 4988 4988 4988 4988 6356 0952 3922 4098 5405 1342 0761 5388 4642 5654 5654 5654 5654 5654 5654 5654 5655 5911 5911 5938 4643 5912 5912 5912 5938 4930 4005															
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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1	-140A/B/C/R ORB		BLE CP	.9600	3083	71768.	BLE CP	.1580							.6576	.9600	029+ 1202 6263 5507	+009 3734 3447 2835
'A - 0A14	(0A148)		DEPENDENT VARIABLE	.9210	4724	MACH .	NT VARIABLE	.1120		988	1484	. 1389	. 1387		.1470	.9210	- 1962 - 1941 - 1103 - 3864 - 4438	4584 3823 3577 2709
SURE DAT	AMES 11-073(0A148)	4.245	DEPENDE	.8790	2448	-3.85t H	DEPENDENT	.0700	2296		1849 1849	. 1648	.021		. 0239	.8790	0774 0205 2689 2807 3445	- 396+ - 354+ - 354+ - 1421
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		8.059 8	1) ORBITER FUSELAGE	.7290	0831		ER FUSELAGE	.0080	.9288		1	.5616	•		.233	.7290	.1718 7374 5792	2338
9 76			110RB1T	.6520	1103 1248	11.980	1) ORBI TER	.0000	1.0986						1.0986	.6520	. 34.98 1.085 1.049 1.049	3786 2588 2126 1704
DATE 10 FEB 76		ALPHA (4)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (X/LB	PH1 .000	20.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 6	70.000	120.000	150.000	151.000 162.000 165.000	174.000 180.000	X/LB	PHI - 000 - 000 - 000 - 000 - 000 - 105 - 000 - 110 - 000	120.000 135.000 150.000 165.000

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				AMES	=	-073(04148)	-140A/B/C/R	exe B	FUSELAGE			(XE8B31)	31)			
ALPHA (5)	11.330		BETA (2)		.184 M	MACH	.89717	o	* 598	598.01	.	1061.4	PRV/L	•	3.5714	
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ALPHA (S)		975 BI	BETA (3)	, ,	.259 m	MACH .	71768.	σ	* 598.01	.01	•	1061.4	RN/L		3.57!4	
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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE			. 1660		7007	1965.		PR/+	.4825	0666					2683		
48 (AME	-140A/B		ABLE CP	. 1580	:				4021	1000	.9600		0143	0939 6891	5398 5843	6664	5786 4803	3207
TA - 0A1	3(0A14B)		DEPENDENT VARIABLE CP	.1120		.1257				140 140	.9210		1824	5010	6282	6214	5093 4821	4228
SSURE DA	ES 11-07	4.259	DEPEND	.0700		0089				.0156	.8790		0808	3619	5475	5351	4547 3964	1971
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		11.975	TER FUSE	. 0080					1	.2163	. 7290		.1710	7366		3028	1456	1290
E9 76			SECTION (1) ORBITER FUSELAGE	0000						1.0877	.6520		.2223	4532		2172	1511	1617
DATE 10 FE9 76		ALPHA (5) =	SECTION	X/LB	PH]	150.000	162.000	165.000	129.000	180.000	X/LB	Ē	000	70.000 90.000	105.000	120.000	150.000	180.000

	_		800	5		.5740	. 0669	1382									
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PAGE	05 AUG		• • •	٠		.4970	0552	1384	1007	.0807		0100	0280		0458		
	•	C DATA	SPOBRK L-ELVN MACH	RNA		.3780	0739	1680	6030			0367	0555		0751		
	(XEBB32)	PARAMETRIC	-10.000 16.300 .000	2386.3		.3010	0976	1940	0.00	0417		1066	1272		1339		
		•	RUDDER - BOFLAP - R-ELVN -	•		.2510	1256	2624		1593 1593	. 1960	3095	2370		2355		
			581	594.68	t	.2040	1518	2037	1943		- 1934 - 1934	3628	25.		-1.1877	1.0460	0037
_	FUSELAGE			36		.1770						1946	2569		•	1.0180	.1663
RE DATA - 0A148 (APES 11-073-1	98			0		. 1660	1776	2359	1443	0372	3561.	.5612	C U	81/6	364t	0666	- 2339 - 2337
3 (AMES	-140A/B/C/R			.5966	RE CP	. 1580								6000		.9600	0303 1595 2166 2166 2086 1852
1 - 0A14E			82 8	MACH	EPENDENT VARIABLE	.1120		- 2826 - 3054	1199	. 1380	. 3222	.3469			.2867	.9210	1372 1322 1316 1504 1860 1860 179
SURE DATA	3 11-073(0A14B)		5800 IN.	-7.850 M	DEPENDE	.0700	2210	- 2777 - 2942	0203	. 1510	. 3455 5	¥7.48.			.2764	.8790	
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TABULA		۲.	XMR89 YMR9 ZMR8	BETA (1)	4GE	. 0230	2164	1960	2815	.5469 5493	.6200	.5718			.4398	.7790	
		REFERENCE DATA	Š F F	SH SH	ER FUSEL	. 0080	. 1292			.7359					.7095	.729A	1164 0467 00589 .0589
3.76		REFEI	2630.0000 474.8000 936.0680 .0300	= -4.052	(1) ORBITER FUSELAGE	.0000	1.0092								1.0092	.6520	
DATE 10 FEB			SREF = 26 LREF = 1 BREF = 5 SCALE •	ALPHA (1)	SECTION (X/LB	PH1 .000	20.000	55.000	70.000 90.000	120.000	150.000	151.000 162.000 165.000	169.000	180.000	X/LB	70.000 10.000 105.000 110.000 150.000 150.000 165.000

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1)	FUSELAGE			.170	. 0330	. 09f		1.0180	. 1610		1		.1770					1073 0205
11-073-1	8			. 1660	.4117	.5266	.5107	0666.	į	- 5862. - 5862.	ø		.1660	1644	2122	2352		5. 5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
B (AMES	-140A/B/C/R		BLE CP	.1580		600	9	.9600	0297 0518 1876 1995	3399 2776 2686 2673	.59664	LE CP	.1580					.6133
A - 0A148	11-073(nA!48)		DEPTNOENT VARIABLE	.1120	5743.		.3368	.9210	1314 1119 2264 2865	3636 2489 2501 2469	MACH .	IT VARIABLE	.1120	818C	##DO: -	1340 1506	.2093	
PRESSURE DATA	5 11-073	. 192	DEPTNOE	.0700	.2870		. 3234	.8790	1430 1221 1962 2487	4226 3213 2387 0849	4.273 MA	DEPENDENT	.0700	2138 - 2252	2257			
-	AMES	3) =		.0460	.3784		3978	.8210	1915 1566 . 0052 . 0502 . 0503	.1826 .4320 .4663	j		. 0460			0638	3158	
TABULATED		BETA (3	AGE	. 0230	. +839		.4930	.7790	1406 1309 0619 0036	. 1143 . 2365 . 7355.	BETA (4)	I GE	. 0230	. 1895	0805	1724	¥703.	
			ER FUSEL	.0090			.7282	.7290	1119 1065 0501	.0879		R FUSELAGE	0800.	.1515		.2773		
37 8:		-4.020	1) ORBITER FUSELAGE	.0000			1.0621	.6520	0923 1376 0450 0162	.0383 .0414 .0364	₽ 20. 4-	1) ORB! TER	.0000	1.0385				
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	PHI 140.000 150.000	165.000 169.000 174.000	180.000	X:LB	PHI . 000 . 000 70.000 90.000 105.000	135.000 135.000 150.000 165.000	ALPHA (1)	SECTION (X/LB	741 .000 .000 .000	40.030 55.000	70.000 90.000 123.000	150.090	165.000 174.000

£7.				.5740					₩.8170		.5740	0740	0313						
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	ŝ			.3780	0356				S RN/L		.3780	0751	0357	0210 0350 1284	1076	6892	0790		
	(XE8832)			.3010	0995				- 2386.3		.3010	0919	0541	0986 1334 3499	1516	1474	1353		
				.2510	2007				٩		£.	1293	1171	2541 3190 3956	Ţ.2731	2387	2284		
				.2040	-1.1197	1.0460	.0477		594.68		.2040	1555	7171.	. 322. . 522. . 5462.	6315	9963	-1.1447	1.0460	.0163
-	FUSELAGE			.1770		1.0180	.1643		* 59		0771.				1.00	1737		1.0180	. 1431
11-073-	g B			. 1660	.4915	0666.	, 25 04 04	3084	0		. 1660	1862	1900	3427 3427 3384	.1471	.3739	.3957	0666	
0A148 (AMES 11-073-1	-140A/B/C/R		BLE CP	.1590		.9600	0219 0469 1952 2218 2892	4050 3204 3176 2822	. 59664	BLE CP	. 1580					i		.9600	0259
•	11-073(00148)		DEPENDENT VARIABLE	.1120	.3237	.9210	1327 1094 2167 I.3864 I.3244	-,4599 -,334 -,3518 -,3405	MACH =	NT VARIABLE	.1120	t C	1961	1893 2264 1067	.1074		.2745	.9210	1290
PRESSURE DATA	5 11-073	.273	DEPENDE	.0700	.3113	.8790	1398 1185 2350 2954 4388	5619 4343 3592 2046	.346	DEPENDENT	.0700	2384		1962 2078 1105	.1183		.26.36	.8790	1462
۵	AMES	* ~		.0460	. 3828	.8210	1628 1450 0341 0355	.6189 .2818 .4703	51 * 8		.0460	- 19 ⁴	2133	- 1552 - 1403 - 0068	.2205		.3326	.8210	1918
TABULATE		BETA (4)	AGE	. 0230	.4861	0677.	1461 1262 0997 0462	. 1364 . 1364 . 1928 . 1928	BETA (S	AGE	.0230	2079	- 1699	0044 0044 1628	5462.		.4336	J. 7790	1467
		-4.028 B	110991TER FUSELAGE	.0090	£769.	.7290	1103 1296 0786	0461 .0850	-4.045 B	ER FUSELAGE	. 0080	3711.		.0953			.6275	.7290	1166
10 10				.0000	1.0385	.6520	0940 1179 0653 0303	0295 0111 0171 0185		1 1 CRB I TER	.0000	6066					. 9939	.6520	0993
DATE :0 FE9		ALPHA (1)	SECTION (x/LB	PHI 183.000	X/LB	PH1 - 000 - 00	155.000 155.000 155.000	ALPHA (1)	SECTION (X/CB	PH1	000	00000000000000000000000000000000000000	:50.03 :50.03	69.000 69.000 69.000	. 53. 03 0	X/LB	PHI 0000 101

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					4.8132		CYC.	0130	B##0									
					•		0.64	0156	0572	.0339	0538	0638	0657	0697				
					S RWA		.3780	0.58	0726	9320.	0677	bev3	6669	0965				
					- 2386.3		.3010	0712	0909	0207	2172	1607	1681	1605			•	
					•		0185	0996	1468	1263	2286	3987	3019	2710				
		1.0460			593.85		.20%0	11181	2034	0869 0963	- 1795	4662	-1.1141	-1.3466	1.0460	7510.		
		1.0180			. 59		0771.					į	1675	·	1.0180	.2687		
		3666 .	9		•		. 1660	1337	1740	 	1736	.5156	.5104	946	0666		į	
	PLE CP	.9600	2024 7465 3013	4721 3801 3790 2898	. 59622	BLE CP	. 1580							555 555	.9600	0228	1310 1628 2074	1921 2013 2016
	DEPENDENT VARIABLE	.9210	2341 2849 3516	5535 4311 4728 4393	MACH .	DEPENDENT VARIABLE	.1120	į	1951 1565	.0231 .1290	2848	. 2646		.2078	.9210	1311	1199 1507 1823	1850 1437 1332
8.346	DEPENDE	.8790	2701 3307 4892	7042 5805 5252 3447	-7.883 M	DEPENDE	.0700	1382	1733 1254	. 1075 . 1982 . 1982	1987.	. 2 ⁴⁹⁵		<u> 185</u>	.8790	1300		2212 1973 1916
		.8210	0721 0905 0644	2024 .1142 .4131			.0.40	1115	0924 0387	. 1916 . 2950 . 2950	3974	3179		12	.8210		1015 1017 1017 1017 1017 1017 1017 1017	3387
BETA (5)	AGE	.7790	1405 1085 0589	0796 .0276 .0727 .0979	BETA (1)	AGE	. 0230	0652	0243 .2079	.5035 25035	5467	.4536		3258	3677.	- 1006		. 1696 . 2234 . 2134
	ER FUSEL	.7290	1589 1145	1043 0294 . 0254	.03+ BR	ER FUSEL	.000	.3239		ř	. /405			.5808	.7290	0624	1243 0576	0238
8+0·+- +	1) ORBITER FUSELAGE	.6520	0858 0548	0660 0517 0401 0320	•	(1) OPBITER FUSELAGE	. 0000	. 0.0.						1.0504	.6520	0398		0941
ALPHA (1)	SECTION (X/LB	PH1 70.000 90.000 105.000	170.000 175.000 185.000 185.000	ALPHA (2)	SECTION (X/LB	PH1 . 666	20.030 40.030	55.000 70.000	120.000	140.000 159.660	151.000 162.000 165.000 169.000	174.030 180.000	X/LB	PHI .003	70.000 80.000 102.000	170.000 177.000 150.000

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

ALPHA (2)	a	.034	BETA (1	11 = -7	-7.883										
SECTION	SECTION (1) ORBITER FUSELAGE	TER FUSEL	AGE		DEPEND!	DEPENDENT VARIABLE CP	ABLE CP								
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	ე666.	1.0180	1.0460					
PH1 165.000 180.000	0493	0002	.1742	.2761	.0767	0943	2506								
ALPHA (2)		.043 BI	BETA (2)		-3.857	MACH	. 59622	ø	B	593.85	۵	2386.3	S FRV/L	•	4.8132
SECTION	SECTION (1) ORBITER FUSELAGE	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.0000	. 2080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PH1	1.0762	15 J	70 <u>70</u> -	- 0073	1157			1		0201	0027	3636		1	0800
20.000	5		0020		1399			786					Ucat	1500.1	- 0010
40.000			1728	040	+111	1333		- 1796		1678	1117	0588	0407	0334	0164
70,000			3872	. 1 	00 to 00 to			0878		1319	6101		44400	0100	
90.000		.6023	4402	.2397	.1332			0617		2410	2093	0905	0177	0140	
120.000			4719	.3175	.2181			. 0833		2647	2661	2208	0478	0267	
150.000			.4313	.3133	.2345	.2522		.4636		5382 5122	3497	1340	0550	0290	
162.000									. 1083 1194	;					,
169.000								.4997		-1.0975	2598	1356	0573	1295	
180.000	1.0762	.5937	.3570	.2850	.2196	. 240t	14.18	. 3993		-1.3235	2416	1285	0590	0297	
x/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
11.5	7420	06.68		41.41		6	ě		5	9					
40.000	0719		- 0350		1018	198	9750		926	200					
70.000	- 1355	- 1591	0750	3340.	15.4	- 1676	1612								
105.000	600	1660	.0591	. 1661	2814	2366	2416								
120.000	0577	0055	. 1633	.3133	3104	2586	2475	2536 2536							
135.000	0157	.0519	. 2352	.3306	2565 2206	1956	2355								
165.000	0107		+705		0221	1825	2501								
180.000	C184	BYCD.	non!	.3579											

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	íž.	S ROVL		.3780		S FRV/L		.3780	0270 0161 0341 0406
	(XE8832)	= 2386.3		.3010	0418 0418 136 123 123	- 2386.3		.3010	0571 0387 1086 1288
		۵		.2510		۵.		.2510	0859 0308 2794 3340
		593.85		.2040	1.0751 1.0751 1.0751 1.0751 1.0751 1.0751 1.0751 1.0751 1.0460	593.85		. 2040	1074 1208 1426 2088 2702 3978
	FUSELAGE	* 593		.1770	. 0138 . 0262 . 1 0180 . 1 735	. 593		.1770	
0A148 (AMES 11-073-1	C/R ORB F	0		. 1660	. 1168 . 11308 . 11309 . 1502 . 4654 . 4439 . 4654 . 4439 . 5659 . 5659 . 4554 	o		.1660	1206 1287 127 1976 1976
8 (AMES	-140A/B/C/R ORB	.59622	BLE CP	. 1580		. 59622	BLE CP	.1580	
•		MACH =	NT VARIABLE	.1120		MACH =	NT VARIABLE	.1120	1461 1295 1209 0981 1000
TABULATED PRESSURE DATA	ES 11-073(0A148)	. 186 н	DEPENDENT	.0700	. 1206 	<u> </u>	DEPENDENT	.0700	1295 1420 1318 0807 0518
TED PRES	AME	3) =		.0460				.0460	0856 0856 0923 0110 0110
TABULA		BETA (3	AGE	.0230	7.50. 7.50. 7.50. 7.50. 1.38. 1.38. 1.38. 1.09. 1.	BETA (+)	AGE	.0230	0432 0418 0459 1509 1509 1538
		045 B	ER FUSELAGE	.0080	.3605. 1944. 1.587. 2.0606. 2.0606. 2.0606. 2.0606.	至.	ER FUSELAGE	.0080	.3347
8 26			1) ORBITER	.0000	1.0812 1.0812 0559 1590 1596 1596 0491		1) ORB 1 TER	.0000	1.0601
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PAGE				£694.	0298	n307	6307						.4970	0212 0138 0113 0382 0681
	(25)			.3780	0560	0591	0564				RN/L		.3780	0489 0487 0463 0733
	(XEBB3K)			.3010	- 1349	1323	1271				2386.3		.3010	
				.2510	- 2953	2468	2374				•		.2510	1023 1134 3009 3755 2986
				.2040	4806	-1.0718	-1.2745	1.0460	.0209				.2040	- 1241 - 1375 - 1598 - 2367 - 3631 - 4533 - 5260 - 558 - 6906
	FUSELAGE			.1770	1415		1	1.0180	.2612 .1547		- 593.85		.1770	2883 2833
AMES 11-073-1	g B			.1660	.2590	.4057	.4208	.9990	e F	2418 2850	0		. 1660	1385 1467 1559 2812 2812 2801 2801 3234
-	-140A/B/C/R		AE CP	.1580		u u		.9600	0167 0485 2063 2333	3712 3133 3203 2853	.59622	LE CP	580	5002
1 - 0A148			DEPENDENT VARIABLE	.1120	. 1483		.2381	.9210	1170 0970 2277 2634	4277 3360 3658 3716	* *	T VARIABLE	.1120	
PRESSURE DATA	AMES 11-073(0A148)	4.251	DEPENDEN	.0700	.1480		.2188	.8790	1261 1013 24+5 3060 4396	5368 4467 3939 2559	8.312 MACH	DEPENDENT	.0700	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	AMES	•		.0460	.2311		.2747	.8210	1597 1161 0655 0537	.0387 .2612 .3664 .3851			.0460	
TABULATED		BETA (4)	VGE	. 0230	.3201		. 3623	.7790	0967 0784 1446 0849 0326	. 1334 . 1514 . 1614 . 1655 . 1906	BETA (S)	j J	.0230	
		.041 86	1 JORBITER FUSELAGE	. 0080			.5653	.7290	0597 2157 1377	0693 .0210 .0466	.035 BE	R FUSELAGE	.0090	. 3145 . 0937
3.76		•	1.1088176	.0000			1.0601	.6520	0395 0%54 1662 1114	0673 0177 0148 0219	0.	1) ORBITER	.0000	1.0097
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BETA (5) -

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ALPHA (2) .

AMES 11-07310A1481 -140A/P/C/R ORB FUSELAGE 1 1-013-1 1

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(XE8835)

SECTION 1 110RBITER FUSELAGE	13048171	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE CP.	BLE CP.									
X/LB	.0000	.0080	.0230	.0460	.0700	.1120	. 1580	1660	.173	.2040	33.	.3010	.3780	76×.	570	
PH1 180.000	1.0097	1684.	.3157	.2235	.1683	. 1960		.322	·	-1.3019	2739	1636	1020	0783		
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180 1.0460	1.0460						
PH 40.000 70.000 105.000 1135.000 1150.000 1150.000 1150.000	0470 0356 1807 1255 0879 0688	0653 163% 1142 0473						. 339*	. 1473 1473	. 05597						
ALPHA (3) .		¥.0.*	BETA (1) •	1-	.879	MACH .	.59602	0	. 39	593.50	•	2386.4	REVL	٠	4.8147	

ALPHA (3)		4.0.4 B	BETA (1)	•	H 678.7-	MACH 5960₽	.59602	0	- 593.50	3.50	۵.	• 2386.4	* RN/L		* *.B!\7
SECTION	SECTION (1) ORBITER FUSELAGE	ER FUSEL	AGE.		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
87/X	. 0000	.0080	.0230	.0%60	.0700	.1120	.1580	.1660	0771.	.2040	.2510	3010	3780	076¥.	5.5
11.4 000.	1.0297	6164.		•				1060		.0790	0637		0162	.0201	.0321
\$0.000 \$200 \$200 \$200 \$200 \$200 \$200 \$20			368	1097	1000 1000 1000 1000	. C. V.		- 080		. 0918 81918	0501	0060	. e075	.0158	. 9-99
70.000			5.00					0299		0856	1422	0497	1410	.000	
120.000 120.000 120.000		96.	.5219					. 0337		1466		083. 3053	,	0185	
150.000			EIX.	7105.	.1398	.181		2494°	.122	.5759	4857	2081	1317	- 15	
165.650 165.660 169.000								86**	1980.	-1.2922	. 3.20	1965	1220	0370	
180.030	1.0297	.4313	. 1987	. 1228	.0913	.1309	. 500g	.2326		-1.5138	2965	1782	1092	0869	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0-60					
7±1 . 030 . 000	6229.	010	0585	1156 0811	11561020 08116732	1122	0142		288 2.	2750.					

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•	FUSELAGE
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	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
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.5740 9440. .0614 4.8147 .4970 -.0334 -.155 .0418 .0228 -.0677 -.0573 -.0563 N N -.0424 -.0550 -.1260 .3780 .0060 .0200 -.0863 -.0775 -.0721 2386.4 -.0875 -.1198 -.2803 .3010 -.1433 -.0209 .0010 -.1632 -.1730 ..0515 -.1880 -.2213 -.3080 .2510 -.0395 -.3019 -.4229 -.2697 -.0865 -.0865 -.1003 -.1508 -.2305 -.3987 -.6061 .2040 1.0460 -1.2488 -1.4633 .0312 1.0460 593.50 .1770 .0489 .0392 1.0180 .2071 .2071 .9990 -.0733 -.0762 -.0768 -.0494 -.0494 -.0691 . 1660 .4413 .4157 9990 -. 33.45 -. 24.24 .3271 -.1909 -.2274 -.2127 -.2409 -. 1234 -. 1630 -. 2137 .9600 -.2348 -.2403 -.2325 . 59602 . 1580 -.0106 -.0421 -.1563 -.1912 -.2443 . 1959 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1064 -.1411 -.1813 -.1942 -.1809 -.1705 -3.855 MACH . .9210 .1120 -.0808 -.0256 .0413 .0739 .0843 -.1087 -.0830 -.1542 -.1915 .1785 .1593 .9210 -.0267 -.0388 .0153 .1273 .1375 .1485 .8790 -.0975 -.1159 -.1906 -.2523 -.2485 -.2612 .0439 .0700 . 1235 .8780 -.3157 . 1392 -7.879 .0952 .1514 .3140 .4609 .3272 .1158 .8210 .e107 .0460 .0540 .0540 .1000 .2057 .2190 .2361 -.1094 -.0812 .0367 .0789 .1743 .8210 .2007 .2702 .2846 .2160 <u></u> -.0690 -.0026 .0441 .7790 .1078 .1740 .1765 .1437 .0230 .1198 .1571 .3118 .3970 .4128 .4149 -.0471 -.0288 -.1195 -.0445 .2313 .1790 BETA BETA SECTION (1) ORBITER FUSELAGE SECTION 1 110RBITER FUSELAGE .7290 -. 1976 -. 1383 -.1116 -. 0263 -. 0206 .0080 .5257 .5606 .4423 -.2383 -.1646 .7290 -.0027 .0118 -.0730 4.016 4.014 -.1141 -.0944 -.0909 -.2231 -.2327 .6520 .0000 1.0635 . 0260 . 0225 - . 2595 - . 1881 .6520 . 1526 -. 6653 ALPHA (3) ALPHA (3) PHI 70.000 90.000 1105.000 135.000 135.000 165.000 20 000 55 000 55 000 70 000 120 000 151 000 152 000 165 000 174 000 X/LB 76.1 90.1 105.1 125.1 135.1 X/LB

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BETA (2) =

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(XE8832)	
R ORB FUSELAGE	
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ES 11-073(0A148) -140A/B/C/R	
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SECTION (1) ORBITER TUSELAGE	1.10RB1TE	ER TUSELA	NGE		DEPENDEN	DEPENDENT VARIABLE	RE CP								
'LB	0259	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 165.000 180.000	0497	.0327	1695 1695	.3010	0612	1965	2403								
PHA (3)	÷	4.015 BE	BETA (3)	r	.196 M	MACH .	. 59602	σ	= 593	593.50	• •	2386.4	RN/L	•	4.8147
SECTION (1) ORBITER FUSELAGE	11088171	ER FUSEL	IGE		DEPENDE	DEPENDENT VARIABLE	R CP								
7LB	.0000	.0800	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	93.0	.3010	.3780	0.64	.5740
PHI	5770		1186	.035¢	0253			0637		0598	0466	0192	.0113	.0467	.0480
20.000	3		1390	0432	0372	0709		0698 0724		0713 0873	0537	0029	.0158	.0287	.0661
35.00 75.000 900 900			86. 6. 8. 8. 8.	1156	.0366	0240 0050		0917 1145			2321	1189	0649	9±2 9±67	
90.000		.4150	3055	1651. 1917.	.0784	.1086		0214			3202		0870	0645	
140.000			.2811	. 1892	.1125	.1492		.3267	0572	6¥58	3586	1505	0666	+++0	
151.900 162.600 165.900								6404.	0416	-1.2179	2761	1436	0618	0366	
174.000 180.000	1.0752	.4401	. 2543	.1752	.1294	.1787	.5690	.3787	·	-1.4189	2599	1303	6490	0399	
7FB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					,
PH1 .000	.0259	0031	0454 5245	1157	0952	1013	0078		. 1849	.0332 0332					
70.000 90.000 10.000	- 1938 - 1938	2649 1796		-010. -0006.	\$00. \$155. \$1.88.	1961 2335 2799	1880	7.750		•					
120.000	1139	0508	.0982	.0243	3971	3175	- 2699	. 2497 2497							
150.000	0439	.0136	1658	3733	3102	2080. 0464.	2663								
180.000	0363	.0367	1713	. 3929) } •) }	! !								

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PAGE		،		.4970	.0401	.0146	0508	0458	0398	0443	0535						0254	
	ĝ	RN/L		.3780	₹,00.	0013		0672	0674	0722	0.740				RN/L	ı	.3780	
	(XE8832)	2386.4		.3010	0215	0248	- 1385		- 1418	1392	- 1424 -				2386.4		30.	M M 10
		•		.8510	•	. 0832	. 2643		- 3264	.2708	8684 -				•		0155	
				.2040	0658	1104	•	•		.2083 -	.4277	.0460	.0272 0381		30 P		2040	
_	FUSELAGE	= 593.50		.1770	•	• •	•	•	. 1801	7	7	.0180	. 1775 -		= 593.50		.1770	111111
- 0A148 (AMES 11-073-1	8	o		. 1660	0711	0930 1483	.1706	. 1272	1755.	.3496	.3513	. 9990		2826 2826	ø		. 1660	0874 1071 1308 2005 2011
(AMES	-140A/B/C/R	. 59602	E CP	.1580	•	• •	•	•			9116.	.9600	0070 0384 2177 2413	3432 3220 3248 2741	. 59602	8	.1580	1111111
		MACH =	T VARIABLE	.1120	CORO	0601	0718	. 0293	.1036		.1654	.9210	1068 - 0850 - 2335 - 2725 -	.4047 .3403 .3760		VARIABLE	.1120	- 1093 - 1118 - 1407 - 1327 - 1533
PRESSURE DATA	11-073(0A148)	4.243 MA	DEPENDENT	.0700		0482			.0681		.1132	.8790	.0968 .0750 .2480 .3147	5158 - 4646 - 4238 - 2821 -	95 MACH	DEPENDENT	.0700	. 0598 . 0870 0958 - 1126 1126 1351 0989
	AMES	<i>3</i>		.0460	0313		0140 0240	0823	. 1473		.1694	.8210	. 1118 .0739 .0738 .0739	- 50505 - 5525 - 5125 - 2135 - 2995	8.295	8	.0460	. 0097 . 0157 . 0777 . 0863 . 0953
TABULATED		BETA (4)	Ä	. 0230	. 1030	15. 15. 16. 16. 16.	. 1652 . 1845	₩.	.2228		.2469	.7790	.0478 .0210 .1911 .1108	0011 .1049 .1335 .1472	<u>(8</u>	tui.	. 0230	. 0922 . 0579 . 0593 . C488 . 0457 . 0570
			R FUSELAGE	.0080	.5120		.2519				.4129	.7290	.0005 -2072	.0051	B BETA	FUSELAG	.0080	.0654
76		= 4.015	1) ORBITER	.0000	1.0548						.0548	.6520	. 0307 . 0342 2815 2020	. 1130 . 0509 . 0436 . 0555	4.018	1) ORBITER FUSELAGE	.0000	6666
DATE 10 FEB 76		ALPHA (3)	SECTION (xv.ra		#0.000 55.000	90.000	120.000 140.000	150.000 151.000 162.000	165.000 169.000 174.000	180.000	X/LB	70.000 70.000 70.000 105.000		ALPHA (3) =	SECTION (1	x/LB	PH1 .000 20.000 40.000 55.000 70.000 96.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	8.295
•	
	(3)
	BETA
	4.018
	ALPHA (3) =

SECTION (11 ORBITER FUSELAGE	R FUSEL	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0.794.	.5740
PHI 140.000 150.000 151.000			.1384	.0794	0064	. 0250		. 0928	0.50 	5865	3230	- 1556	0895	0682	
169.000 169.000							011	rara.		-1.1992	2804	1684	1016	0796	
180.000	6666.	3424	. 1989	.1204	.0742	. 1203	. 1100	.2599	•	-1.4329	3034	1743	1149	0983	
K/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1	\$710	1010	- 05143		9000	0201	if do		Ś	ģ					
	032			0708	0786	0867	0364		1704 1704	0439					
90.000	2864 1987	3069 2210	2203 1607	1220 1210	2850	2551	2636								
105.000				1187	4819	3660	3162	7300							
-	1240	1328		1212	6299	4898	4012	3017							
		0509		. 2667 . 2667	5897	4307	3707								
	0879	0409	.0631 .0984	-2104	4859	4857	2847								
MEPHA (4)	8.080		BETA (1)		-7.877 M	MACH .	. 59636	o	- 26 - 26 - 26	594.21	o:	- 2386.7	RNAL	•	4.8 181
SECTION (1) ORBITER FUSELAGE	R FUSELA	QE		DEPENDENT	IT VARIABLE	LE CP								
(/LB	.0000	. 0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
Ē															
.000 20.000	.9919	.6491	3120	.1162	0519	9900-	•	0231		0199	0122	.0035	.0331	. 08 02	9660.
40.000			684	.2621	. 1623	. 0939		.0322		.0063	.0340	.073±	.0866	. 0932	₩ :
70.000			֡֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֡֓֓֓֓֓֡֓֓֡	3600		9					1630	0200	6130	SELLE Server	
90.000		.6336	4728	3007	2167	1577		. 03+3 87-00			1927	1234	0842 1717	1.85 1.85 1.85 1.85 1.85 1.85 1.85 1.85	
140.000			5												
151.000			1830	(0 80 ·	. U390	9990.		9. I.÷.	6490	6733	5655	233	171	1600	
155.003								2002	-	-1.4438	3862	2218	1456	1271	
174.000							.5536	. 3923							

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4 8 3			5740					4.8181		.5740	.1068	. 1431						
PAGE			.4970	1051				•		.4970	8780.	.0888	0816 0905 2259	1038	6843	0677		
(XEBB32)			.3780	1171				7 RN/L		.3780	.0573	.0767	0852 0997 2301	1158	0980	0776		
CXEB			3010	1849		,		- 2386.7		.3010	.0234	.0587	1246 1506 3661	2047	1760	- 149¢		
			93.0	3130				<u> </u>		.2510	.0001	.0125	2158 2362 3593	4812	3387	2855		
			.2040	-1.7668	1.0460	.0338		594.21		.2040	0069	- 0109	- 1483 - 2284 - 3295	7016	-1.4054	-1.6114	1.0460	.0387
-1 : FUSELAGE			0771.	·	1.0180	.3100 .5252		• 59		.1770				05+1	0304	•	1.0180	.2301
			. 1660	.1702	0666.	Š	000 000 000 000 000 000 000 000 000 00	0		.1660	0053	.0207	0345 0385 .0437	.3781	.3821	.2656	0666.	
~ }		BLE CP	.1580		.9600	.0012 0318 1:66 1615	1976 2447 2523	.59636	RE CP	.1580					į	£ 50.	.9600	.0106 0215
- 0414		NT VARIABLE	.1120	.0520	.9210	0828 0578 0974 1385	2093 2069 1885 166	MACH	UT VARIABLE	.1120	5 5	0.00	.0816 .0016 .1073	. 0999		.0916	.9210	0770
PRESSURE DATA - 0A1 AMES 11-073(0A148)	-7.877	DEPENDENT	.0700	.0015	.8790	1.0664 0388 0906 1016	2755 2929 3217 . 0432	-3.848 M	DEPENDENT	.0700	.0773	1881.	1315	.0346		.0292	.8790	0568 0413
<u>o</u>			.0460	. 0410	.8210	0630 0218 .0923 .1544 .3321	.4976 .2402 1324 .1222		•	.0460	1457	. 2216 . 2216	23.75 .21.16 .1567	.0979		.0597	.8210	0593
TABULATED	BETA (1)	10E	.0230	.0729	.7790	.0379 .0379 .1110 .0111		BETA (2)	ige Ige	.0230	2713	#884 0013	37.50 37.50 5.88 4.80 4.80	1901		.1039	.7790	.0426
	_	ir fuselage	.0080	.2656	.7290	.0573 2682 2071	1936 0641 0351		R FUSELA	.0080	.6881		.5053			.2767	.7290	.0649
97.6	= 8.¢80	1) ORBITER	. 0000	9166.	.6520	.0890 .1107 -3507	3550 1614 1306 1236	8.089	1) JRBITER FUSELAGE	.0000	1.0210					1.0210	.6520	1021
DATE 10 FEB	ALPHA (4)	SECTION .	X/LB	PH1 180.000	X/LB	PH1 - 000 -	120.000 135.000 156.000 165.000	ALPHA (4)	SECTION (X/LB	1Hg .000	40.05 60.05	90.000 120.000	150.000	165.000 165.000	180.030	X/LB	PHI .000 40.000

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(XE8832)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

DEPENDENT VARIABLE CP

-3.848

BETA (2) .

8.089

ALPHA (4) =

SECTION (1) ORBITER FUSELAGE

			4.8181		.5740	6 01:	.1329							
					0754.	.0382	.0729	0943 0986 1420	0725	0602	0552			
			P RBV/L		3780	. 0585	.0586	1042 1078 1584	0829	0746	0675			
			= 2386.7		.3010	S+50.	.0225	1584 1681 3145	1734	1483	1397			
			۵		.2510	. 0027	0278	2570 2741 3659	4070	3013	2773			
-			594.21		.2040	0053	0458	- 2092 - 2891 - 3955	7243	-1.3351	-1.5334	1.0460	.0371 0199	
-			*		.1770				Coec	1105		1.0180	.2101	
0000		2331 2331	ø		. 1663	0039	0120	1049 1131 0281	5962.	.3506	3099	. 9990		3176 2429
oegu	1416 1837 2351	2180 2386 2225 2382	. 59636	RE CP	.1580					900	600	.9600	.0117 0152 1828	2669 2652 2611
0169	1409 1822 2221	2494 2316 2230 1890	MACH ==	NT VARIABLE	.1120	900	.0407	0000.	.0871		.1077	.9210	0763 0538 1984 2448	
8790	1450 1731 2483	3239 3071 2787 0824	. 188	DEPENDENT	.0700	.0767	7780	0381 0448 0641	.0301		. 0424	.8790	0572 0381 2076 2671	3863 3679 3454
0158	.0314 .0711	.1390 .1664 .1808			.0460	. 1555	1723	1130	. 0329		.080	.8210	0590 0195 0283 0014	. 0556 . 0556 . 1067
7790	1667 0843 0105	.1444 .1657 .1509 .1188	BETA (3)	AGE	. 0230	2725	4 E	2830 2855 244 34	. 1686		.1264	.7790	. 0391 - 1914 - 0368	.0597 .0917 .1287
7290	3100	1147	8.087 BI	ER FUSEL	.0080	.6877		. 3559			.2765	.7290	.0511 3327 2466	0956
.6520	3782	2678 1133 0926 0904	W	1108811	.0000	1.0325					1.0325	.6520	. 1016 . 1125 3986 2951	1851 C874
X/LB	PHI 70.000 90.000 105.000	135.000 135.000 150.000 165.000	ALPHA (4)	SECTION (1) OPBITER FUSELAGE	X/LB	PH1 .000 20.000	40.000 55.200	90.000 120.000 141	150.000	165.000 165.000 174.000	180.000	אירם איר	PH1 .000 .00.000 70.000	110.000 120.000 135.000 150.000

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ES 11-073-1
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TABULATED PRESSURE DATA
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5740 .1173 8 ğ PAGE .4970 -.1087 -.0991 -.0893 .0877 -.0716 .0461 -.0581 -.0621 Z .3780 .0167 -.1217 -.1136 -.1049 -.0666 .0501 -.0838 -.0661 (XEBB35) 2366.7 .3010 .0235 -.1794 -.1804 -.2767 -.0301 -.1546 -. 153¢ -. 1581 -.3550 .83 -.0052 -.0816 -.2985 -.3658 -.2894 -.2801 .2040 -.0176 -.0401 -.0963 -.2589 -.3557 -.4621 -.5743 . 0279 - . 0279 .9990 1.0180 1.0460 -1.2911 -1.5279 1.0460 594.21 AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE 1.0180 571: .3143 -.2044 .1660 -.0049 -.0558 -.0558 -.1584 -.1748 9990 -.3667 .1985 2980 1565. .9600 -.3340 -.3089 -.3226 .59636 .0159 -.0162 -.2161 -.373 .9600 -.2523 .1580 .4599 DEPENDENT VARIABLE CP VARIABLE -.3032 .9210 -.0076 -.0164 -.0589 -.0584 -.0584 .0968 .9210 -.3917 -.3444 -.3846 -.3922 .0582 HACH DEPENDENT -. 1942 .0503 .0338 .0250 .0155 .0496 .0496 .8790 .0700 0300 .8790 -.0368 -.0384 -.2630 -.3232 -.4395 -.0015 4.243 .4105 .8210 -.0590 -.0204 -.0963 -.0967 .0460 1419 1210 0985 0438 0438 0248 0196 0333 .0703 .0159 .3445 .3561 .078E 8210 1613 .130 野 .0230 1252 .2572 .2389 .2368 .1930 .1646 .1641 .1512 .1257 7.190 .0060 .0408 -.2288 -.1462 -.0836 .0397 .08%2 .1136 .1118 SECTION (1) ORBITER FUSELAGE (1) ORBITER FUSELAGE .7290 .0020 .0090 -.3595 .6696 3161. .0605 -.0347 **19** .7290 -.1459 -.0009 8.086 8.087 .6520 .0000 1.0150 . 1036 - 1036 - 1036 - 2013 -. 1632 -.0764 -.0761 -.0893 .6520 1.0150 ALPHA (4) ALPHA (4) PH1 165.000 180.000 SECT ION .000 40.000 70.000 90.000 1105.000 125.000 135.000 150.000 155.000 165.000 X/LB

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			AMES	=	-073(0A14B)	-140A/B/C/R	80	FUSELAGE			()E8835)	335)		
	8.082	BETA (33 # R	8.301 M	MACH	. 59636	σ	- 594	594.21	_	- 2386.7	7 RN/L	•	4.8181
Œ	110RRITER FUS	FUSELAGE		DEPENDENT	NT VARIABLE	BLE CP								
.0000	0800 . 0	0 .0230	09+0.	.0700	.1120	.1580	.1660	.1770	.2040	.25	.3010	.3780	.4970	.5740
.9563	3 .6261	2755. 11 2751. 169 1. 169 2750. 41	. 1123 . 0724 . 0137 . 0873		0406 0929 1658 1222		- 0242 - 0646 - 1184 - 2244 - 2173		0315 0755 1715 3040	0186 1661 3054	0927 1972	.0447 0288 1386	.0102 .01345	6 8.
			•		0622				5110 6082 7737	3670	2435	0811	0591	,
			•		Š	.3892		3373 3373	-1.2897	3040	1688	097	0963	
525 6520	87.1. 8 0657. 0	85.40. 8'	925U	UIC3 .8790	.9210	.9600	. 1990	1.0180	1.0460	F	700			
.0800 .0912 .3902 .2866 .1719 .1050	0 .0531 53867 62946 91833 00757			0534 0507 3056 3064 5188 5776 5776	0784 0606 3740 3769 4821 4304 4948		. 3026	. 1835 . 1835	. 04-50 04-70			•		
5	2.017	BETA C	11 = -7	.830	MACH =	.59626	ø	= 593	593.97	<u> </u>	- 2386.7	7 FBN/L		4.8175
8	110PBITER FUS	FUSELAGE		DEPENDENT	NT VARIABLE	BLE CP						,		}
0000	0800 . 0	. 0230	.0460	. 0700	.1120	. 1580	. 1660	. 1770	0 1 0 1	S.	3010	. 5788	0/6 4 .	37c.
9209	<i>5177.</i> 6	• • •	M N N	.1515	.0963		.0588		.0395	. 0950	. 1332	. 1534 - 1534	.1690	. 1653 4255
	.5403	5740 1889 13968 5215	.3826 .3142 .0491	.2801 .2078 .1950 0054	1790 1516 1180 0418		.0380 .0380 .0153		0186 0881 1764	1827 2230 4396	1208 1643 5690	0974 1369 4895	1494 1494 5223	

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				A	ES 11-07.	3(0A14B)	AMES 11-073(0A148) -140A/B/::/R 0R8 FUSELARE	C/R 0RB	בוופבו עעב			9	(CEODES)		į
ALPHA (5) -		12.017	BETA (1)		-7.830								Ì		
SECTION (DOPETTER FUSELAGE	LAGE		DEPENDE	DEPENDENT VARIABLE CP	ABLE CP								
X/LB	.0000	.0080	. 0230	.0460		.1120	.1580	.1660	0771.	.2040	9180	0108	2780		
PH1 140.000 150.000 151.000			.0412	- 0276	0673	9.00.		.3645	±600·	4794	- 635	. 288.	2019	2133	
200 a								.3389		-1.5724	9604	2374	1586	1636	
000.0	.9209	. 1058	0525	0626	0820	0022	766	.1095	•	-1.9527	. K	1837	<u> </u>	1388	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PHI 000 000 000 000 000 000 000	. 1860 . 2090 1958 3749	3517 3517	. 0645 . 1146 - 1535 - 0780	0060 .0418 .0589 .1374 .3289	0248 .0035 097; 1064	0563 0212 1006 1326			.2372	. 02757					
120.000 135.000 155.000 165.000	4874 2195 2069 1863	1139	.0026 .0337 .0269 .0359	.0571 0580 2880	3032 3301 3317	2260 2297 1957 1350	2068 2612 2377	3070 2592			,				
ALPHA (5) SECTION (LP4A (5) = 12.037 BET/ SECTION (1) ONBITER FUSELAGE	OS7 6 ER FUSEL	BETA (2) LAGE		-3.825 N DEPENDEN	825 MACH = .5962 DEPENDENT VARIABLE CP	.59626 BLE CP	ø	= 593.97		•	2386.7	4	•	*.8175
X/LB	9000	.0980	. 0230	.0460	.0700	.1120	. 1580	1660	5771.	040%	Si Si	3010	.3780	25	a Ke

.3316

1943

10274

-.0524

-1.5362 -.0472 -.0967

-. WG.E

-. 1203

-. 1233 -. 1958

- 14W -.2392 -.5308

.1717

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.1500

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-.1669 -.1962 -.4826

-.2423 -.2693 -.4248

.0541 .0576 .0933 .1558 .2456 .3767 .5257

.0643 .0781 .0927 -.0167 -.0399 -.0586

.1072 .1543 .0804 .0762 .0537

.1863 .2285 .2285 .1837 .1134 .0156

.2931 .3320 .2780 .2780 .2048 .1622 .0561

.4081 .4545 .4545 .4545 .3062 .1734

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE D4TA - DA148 (AMES 11-073-1)

機が動きが、乳質療養の機能のようなない。1967年のでは、1967年のようには、1967年の

			,															
								4.8175		O+CC.	.1723	Ē.						
				5.69	•					0784.	1573	.1163	- 1707 - 1630 - 2359	.1143	.9795	0733		
.			780						ĺ	3780	.1133	9080	1685 1714 256	9601.	.0836			
XEBS2			•	' '				۲.		•	•			7	9	0760		
X.			3010	1543				- 2386.7		.3010	. 0803	.0402	2055 2128 4021	2010	1664	1472		
			.2510	. 286				•		.2510	9090	0214	2920 3047 4148	6944.	.3206	- 6062 -		
			.2040	-1.8201	0940.1	. 0036				.2040	9090.	0169		.5757 - 7997	- 4506 -	. 7095 -	.0460	. 0511
COLLAGE			.1770	-	1.0180	. 2378		. 593.97		0771		1 1	111		1653	7	.01E0 1.	.3344 .2254
9			. 1660	.2083	. 9990		2314 2314	0		. 1660	.0675 .0606	. 0402 1086	1107 1218 0524	.2668	2933	2499	.1 0666.	• •
		LE CP	. 1580		.9600	. 0281 0045 1328 1769		29626	e E	.1580		•				000	. 9600	.0316
		DEPENDENT VARIABLE	.1120	.0331	.9210	0478 0247 1452 1769			I VARIABLE	.1120	9460.	. 0958 0273	0050 0164 .0121	.0277		.0421	.9210	0447
	3.825	DEPENDEN	.0700	0497	.8790	0136 .0027 1641 1876	3225 3045 2729 0794	.185 MACH	DEPENDENT	.0700			.0205 .0203 .0503	0560		.0335	.8790	0166 -
			.0460	0393	.8210	0059 .0414 0157 .0460	.1476 .1409 .2915	•	_	. 0460	.2663 .2650	. 2569 . 1544	. 0952 . 0653 . 0075	. 0021		- 0200	.8210	. 0059
•	(%) A : 30	AGE	. 0230	0182	.7790	.0700 .1101 2197 1211	.0495 .0627 0017 .0496	BETA (3)	ų	. 0230	1112 5014.	.4140 .3187	0000 0000 0000 0000 0000 0000 0000 0000 0000	.0439		0028	.7790	. 1044
	, co	ER FUSEL	.0080	.1079	.7290	. 1321 3995 2894	1176		110RBITER FUSELAGE	.0080	.9161		.2667			8001	.7290	. 1302
	ָט י	1 109811	.0000	9459	.6520	. 5282 . 2009 . 5285 3918	3366 2154 1531 1196	• 12.038	1 1 CPB I TE	. 0000	.9557				•	.9557	.6520	. 1905 1908
A: PHA		SECTION (1) ORBITER FUSELAGE	X/LB	PH1 180.000	X/LB	PHI - 000 - 70 - 000 90 - 000 1 000	120.000 135.000 150.000 165.000	ALPHA (5)	SECTION (X/LB	PH1 .000 20.000	25.000	90.000 120.000 140.000	150.000	162.000 165.000 169.000 174.300	180.030	X/L6	PH1 .000 .000.04

DATE 10 FEB	9 TG		; ABULATED		PRESS.JRE DATA	A - 0A148	-	AMES 11-073-1	-					PAGE	£89
				AME	AMES 11-073(0A148)		-140A/B/C/R	ORB.	FUSELAGE			(XE8832)	(25)		
ALPHA (5)		12.038 B	BETA (3)	•	.185										
SECTION (1 1 ORBITER	ER FUSELAGE	AGE		DEPENDENT	I VARIABLE	PLE CP								
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	ა666.	1.0180	1.0460					
PH1 70.000 90.000 105.000	5514 4051	4385 3213	2615 1532 0529	- 0761 0462 .0156	2865 2865 3669	2101 2437 2837	1783 2072 2636	9 9 9							
120.000 135.000 150.000 165.000	2322	1515 0941 0150	.0087 .0024 .0905 .1148	.0930 .2327 .4776	3921 3938 3626 2072	3141 2986 3026 3103	2654 2678 2676 2.3.	2368 2368		•					
ALPHA (5)	a		BETA : 43		4.256 M	MACH	.59626	o	# 29.	593.97	•	. 2386.7	FBV/L		4.8175
SECTION (1) ORBITER	ER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	RE CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	8180	3010	.3780	.¥970	.5740
PH1	7146.	.7967	.3919	.2521	.1598			.0592		8	. 0522	. 0662	.1057	.1478	. 1682
₹0.000 ₹0.000			. 2990	1568	0719	.0138		- 0378		0934 0934	1065	0305	.0257	.0782	.1715
70.000 120.000		.118	. 1261 1261 1029 . 0708	. 0509 - 0115 - 0752 - 0342	0797 0579 0961	1603 0790 0724 0243		- 1948 - 1948 - 1130		35¥0 4736 4736	3217 3214 3990	2324 2180 3293	1903 1661 1668	2052 1636 1460	
150.000			9610.	0153	0731	.0028		.1664		8121	3897	1633	+.080.−	08 20	
151.000 162.000 165.000 169.000							!	9	0859.	-1.3950	3071	1493	0724	0759	
180.000	711-6.	.0755	.0035	0122	0413	.0324	¥.	.2385	•	-1.6976	3035	- 19	089	0896	
X/LB	.6520	.7290	9677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 . 000 70. 000 90. 000 105. 000	. 1725 5431 4031	. 1289 4589 3481	.0701 .0957 2988 2068	0087 .0339 1483 1530	0167 0158 2915 3674	0452 0393 2648 2808	.0299 0008 2196 3132		.2366	.0545 0235					
120.000 135.000 150.000	2228	2065	1179 .0440 .0972	0606 .3415 .4029	5228 4643 4836	4036 3451 3949	3325 3182 3256	2626 2626							

(XE8832)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

4.256

BETA (4) =

12.033

ALPHA (5) =

	1														
	,		4.8175		5740	. 1519	.1377								
			•		.4970	. 1405	.0406	2343	1619	0826		1110	1427		
			7 RRV/L		.3780	.0955	0298	2187	- 1690	0731		0925	1320		
			- 2386.7		.3010	.0616	1178	2502	2232	-, 1595		1568	- <u>19</u>	•	
			a .		.2510	.0383	2135	3471	3316	3422		3040	3248		
	1.0460		593.97		.2040	.0312	0320	3223	4078	9.6486		-1.3751	-1.7706	1.0460	. 0615 0296
	1.0180		* 59.		.1770						3549 3812		•	1.0180	. 3352
	ე666 .		σ		.1660	0410	0112	2224	2300	.0568		. , 382	8441.	.9990	3537 3025
GE CP	.9600	2699	. 59626	BLE CP	.1580								.3373	.9600	
DEPENDENT VARIACLE	.9210	4108	MACH	DEPENDENT VARIABLE	.1120		. 0266 0830	1470	- 1290				0038	.9210	0452 0393 3036 4083 4906 4472 5187
DEPENDE	.8790	3437	8.318 M	DEPENDE	.0700	. 1306	.01739 0173	1.1583	1327	- 1428			0872	.8790	0170 0121 9412 9625 6588 6126 6126
	.8210	.3829			.0460	2286	. 1619 .0498	1031		. 1000			0593	.8210	0118 0281 2349 2047 2047 4803 3613
AGE	.7790	.0912	BETA (5	AGE	.0230	.3692	. 1656	8000 8900	1100	2410			0270	0677.	
er fusel	.7290	0442		110RBITER FUSELAGE	.0080	.7541			0645				.0096	.7290	.1244 4727 3817 0925 1345
1.0RB1T	.6520	1019	* 12.024		.0000	.8808							. 8808	.6520	. 1505 - 1529 5326 3973 1347 1647
SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (X/LB	PH1 .000	20.000 40.000	35. 000 70. 000	90.000	140.000	151.000	165.000 169.000	174.000	X/LB	PHI -000 -

PAGE 491	(XEBB33) (05 AUG 75)	PARAMETRIC DATA		10.000 MACH - 1.400	# 439.71 RN/L # 2.9043		10 .3010 .3780 .4970 .5740	830232035705840588	961468084909740544	09550541	73 - 17490919 .0168 22330612290206	93164910400602	4970 - 1140 - 1154	0001	92138212050973						
			RUDDER	BOFLAP R-ELVN	a .		. 2510	\$0083	31696		1673) 32893	1	# · · · ·	82792	0	m so				
				m er	599.12		. 2040	026	058	073	1515	0928	č		2458	1.0460	.2053				
-	FUSEL AGE				8		.1770					i	9079.			1.0180	. 1930				
11-073-	S/R ORB F				o		. 1660	0519	0531	1191	. 2034 2694	1.0025		1.0642	1.0014	.9990			1398		
SSURE DATA - 0A148 (AMES 11-073-1	-140A/B/C/R				1,3952	BLE CP	.1580								1.1015	.9600		.0637 .0096 0461	0289	•	
A - 0A14	(0A14B)			22	MACH	NT VARIABLE	.1120		0746	1070	27.12 27.12 27.18	.5631			.5631	.9210		.0627 .0556 .0164	•	1927 1927	
SURE DAT	ES 11-073(0A148)			. 0000 IN.	3.848 H	DEPENDENT	.0700	.0076	0657	2353	3420	086 4 .			T974.	.8790		1511 1252 0305		27.11. 27.55	10h.
TABULATED PRES	AME		1075.	375.	E C1		.0460	.0773	0928	3145	. 500 m.	. 649.			.6092	.8210		2037 78087 5889		4714.	.4147
TABULA		1	CICINIX	YMRP	BETA (1	AGE	.0230	82.00	2596	.5963	.6892 .7554 .4554	. 8017			.7353	.7790	0406			• •	.3830
		OFFERENCE DATA	CO ET	i ZZ	01	tr fusel	.0080	6773	3		.9422				1.0318	.7290	0226	.021 <i>2</i> .0528	.0634	.0417	. 0203
a: 75	<u> </u>		מטטט מטיאל	936.0890 0300.0890	.110	SECTION (1) ORBITER FUSELAGE	.0000	1,706							1.4786	.6520	0191		7620.		0157
DATE IN FEB					_	SECTION	X/LB	PHI	8.000	55.000	90.000	140.000	151.000	165.000	174.000	X/LB	PH1	70.000 30.000 105.000	110.000	135.000 150.000	165.000 180.000

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j i

	2.9043		.5740	0537	0449								2.9043		.5740	0388	
	•		0.64	0518	08 04		0716	0745	0761				•		0.4970		1080
(22)	I REVAL		.3780	0425	0659	1083 1293 1775	1392	1229	1168				RNAL		.3780	0539	2356
(XE8833)	- 439.71		.3010	0110	1092	1648 2423 4049	1811	1421	1052			٠	439.71		.3010		4518 4518
	<u>.</u>		.2510	0018	1235	2456 2389 1841	2978	2747	2938				•		.2510	0037 0738 2865	. 3021 . 7509
	599.12		.2040	0266	1167	.0723 0114 .0463	1675	1510	2891	1.0460	.0566		599.12		.2040	0393 0341 0781 .0027	
USELAGE	. 59		.1770					7443		1.0180	.1914 .1075		= 599		.1770		
-140A/B/C/3 ORB FUSELAGE	œ		. 1660	0549 0483	0554	. 1573 . 2057 . 4624	.9328	1.0395	1.0303	0666.	- 2873	1938	σ		1660	- 0596 - 0525 - 0405 0367	9 69 5 7 8 7
-140A/B/(1.3952	RE CP	.1580					6	90en • 1	.9600	2574 2834 .0088 0268	1198 0162 .0314 3064	1.3952	LE CP	.1580		
	MACH	IT VARIABLE	.1120	-,0476	0518	. 1316 . 1640 . 3847	.5203		.5637	.9210	2054 1562 .0212 .0047	1074 .0193 .1034 .1929	MACH =	IT VARIABLE	.1120	- 0428 - 0494 - 0077	. 2872 5872
AMES 11-073(0A148)	.195 M	DEPENDENT	.0700	.0155	.0538	. 2362 . 3635	4534		.4951	.8790	1616 1635 .1132 .0703	.0254 .0808 .1716 .4207	.277 HA	DEPENDENT	.0700	0038 0038 . 0297 . 1358	
AME			. 0460	. 0880 0980 2580	. 2364	.3099 .3834 .5266	.6152		.6142	.8210	0880 0929 . 2344 . 1939	.1397 .3946 .4164 .4966	#	•	.0460	.0867 .0765 .0867 .1573	4.388 4.388
	BETA (2)	J GE	. 0230	1119. 8689.	.5067	.5816 .6466 .7243	. 7543		.7453	.7790	0389 0605 .0069 .1545 .2835	.3007 .3912 .4020 .4080	BETA (3)	39	. 0230	. 3195 4131 4131 54131	.6257
		1) CRBITER FUSELAGE	. 0080	.6714		.8013			1.0161	.7290	0158 .0118	.0447		1) ORBITER FUSELAGE	. 0080	1 7 69.	
	-4.105		.0000	1.4763					1.4763	.6520	0170 0444 .0584 .0702	.0078 .0021 0038	#11:4	1) ORBITE	.0000	1.4628	
	ALPHA 1 13	SECTION (X/LB	PH1 20.000	40.000 55.000	70.00 1.00.00 0.00.00	150.000	151.000 162.000 165.000	180.000	X/LB	70.000 70.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (1)	SECTION (X/LB	PH1 20.000 50.000 55.000	90.000 120.000

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PAGE	

DATE 10 FEB	83 36		TABULATED	TED PRESSURE	SURE DATA	- 0A148	_	AMES 11-073-1	-					PAGE	193
				APES	APES 11-073(04148)		-140A/B/C/R ORB	C/R ORB F	FUSELAGE			(XE8833)	333)		
A. PHA (1)	111.4- = 1		BETA (3)	Ħ	4.277			•							
SECTION ((1) OPBITER	ER FUSELAGE	AGE		DEPEND-NT	T VARIABLE	LE CP								
X/LB	.0000	. 0080	.0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	500 500 500 500 500 500 500 500 500 50	.3010	.3780	.*970	.5740
PHI 140.000 150.000 151.000			.6879	.5765	.4163	.4633		.8459	.5457	1984	2988	1737	1673	1217	
162.000 165.000 169.000							;	. 9857	9499.	1634	3095	1274	1357	1073	
174.000	1.4628	. 9938	.7363	.6168	.4926	.5544	. 0402 CD402	1.0128		2587	2833	1463	1206	0985	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.96υ0	0666.	1.0180	1.0460					
PH1 +0.000 70.000 90.000 105.000	0336 0173 .0488	0138 0160	0428 0329 .0153 .1471	0905 0775 2349 	1613 1637 .0955 .0420	2055 1611 0136 0499	2556 25686 0304 0724	# 60 40 40 40 40 40 40 40 40 40 40 40 40 40	. 0962 . 0962	.0772					
150.000 150.000 165.000 165.000	0057 0126 0188	.0294 .0294	. 2735 . 3496 . 3696 . 3732 . 3836	.0289 .3578 .3739	0639 .0330 .1256 .3516	1910 0555 .0180 .1135	2899 1028 0622 3429								
ALPHA (2))	38 640.	BETA (1)		3.866 MACH	표	1.3944	0	= 599	599.11	_	- 440.18	S RN/L		2.9098
SECT: 0'4 (11CABITER FUSELAGE	lor Lor	٠	DEPENDENT	T VARIABLE	LE CP								•
x/L3	. 8638	. 0383	. 0230	.0460	. 6700	.1120	.1580	. 1660	0771.	.2040	50 50 50	.3010	.3780	.4970	.5740
PH1 20. 000 200 000	1.4804	. 7 <u>9</u> 75	.3192 .3567	1973	.0785 .0851	.0004		0179 0047		0061 0243 0824	.0135	.033	7100.	0271	0281
46.00 96.00 96.00 90.00		.9113	. 1999 1997 1997		3331 3331 3357 3847	. 1622 27.45 25.19 25.19 25.45		. 1615 . 355 . 3043 . 5580		1335 1738 1397	1610 1499 1154	0748 1542 3183	0507 0977 1478	0311 0310 0643	
150.000			.6815	.5457	. 3560	.3843		.9702		1152	3427	2453	1490	0880	
162.969 165.969 174.869							1.033	1.0228	917.	1950	3068	2831	1544	0890	

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ALPHA (2)

APES 11-073(0A148) -140A/B/C/R 058 FUSELAGE

575 -.0248 5740 -.0213 M970 -.0918 .¥970 -.0422 -.0374 -.0688 -.0205 -.0697 -.0716 -.0391 .3780 3780 .0093 -.00% -. 1651 -. 1681 -. 1550 -. 1620 440.18 .3010 -.1358 -.2166 -.3861 .0303 -. 1965 .3010 -. 0325 -.2072 -. 238 35 -. 1656 -.0213 -.2135 -.276 -.1972 .83 -.3355 .0069 -. 3528 -. ¥98 -. 3221 -.2968 1.0460 . 20vo .0937 .2040 - 0123 - 0251 - 0251 - 0252 - 0520 - 0584 - 0284 -.2003 -. 3459 . 1052 1052 1.0460 599.11 .1770 .2457 .1467 .170 1.0180 .6412 .7198 1.0180 .2593 1459 .9990 .9518 -.00%6 -.00%3 -.00%6 -.1035 -.1659 -.75% . 1660 -.2222 -.1852 . 1660 8919 .9990 1.0013 .9883 O -.1975 -.2398 -.0010 -.0726 .9600 .0180 .0461 .2543 .1580 .1580 -. 1948 -. 2092 1.3944 1.0334 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP - 1494 - 0863 - 0149 - 0208 - 0859 # .1120 .9210 -.1135 -.0237 .1167 .2264 .1120 .3770 3838 -. 1457 .0216 .0410 .0991 .1432 .1628 3635 9210 .181 MACH -.0994 -.1157 -.0510 -.0510 .0286 .0376 .0483 .0700 3486 .8790 .0700 -. 0966 -. 1042 .0922 .0872 .2780 .2780 .2780 .2781 .3130 西南 .3737 .8790 -3.866 -.0357 -.0424 .0452 .1269 .1819 5060 .0460 .6210 3332 .1548 .1793 .2105 .2974 .3309 .3774 -. 0268 -. 0256 3093 .8210 .0460 5172 BETA (2) .0230 .6052 .7790 - 0121 - 1272 - 1272 - 1835 - 1835 - 1883 37.55 37.55 37.55 51.50 51.50 57.15 .0230 0056 3322 3532 4726 5558 5944 6331 6518 6232 7790 BETA SECTION 1 1) ORBITER FUSELAGE SECTION : 110ABITER FUSELAGE .0080 -.0575 0630. .80.45 .0097 .0023 .7290 -.0137 .0154 .8036 .7736 8876 . 0205 .7290 940.--.046 .0000 -.0279 -.0330 -.0350 6520 855. 865. 865. 1649. -.0177 .0000 1.4804 .6520 -.0052 .0054 1.4884 **1**003. ALFHA (2) PHI 180.000 60.00 .000 **40**.000 X/LB X/LB X/LB Œ X/LB

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10 FEB	36 0	046 BE	TABULATED	₾.	77ESSURE DATA - OAI4 AMES 11-073(0A148) .181	- 0A14	-140A/B/	IB (AMES 11-073-1) -140A/B/C/R ONB FUSELNOE	1) FUSELMOE			(XE8	(XE8833)	PAGE	ğ
SECTION (1)	1) ORBITER	ER FUSELAGE	1GE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
х/гв	6520	.7290	.7790	.8210	.8790	.9210	.9600	3666 .	1.0180	1.0460					
•	.0022	0928	1234 . 0233 . 1584	.0753 .1014 .1274	.0247 0206 1200	0493 0503 1166	0516 0938 1411								
150.000 150.000 150.000 165.000 165.000 165.000		.0236	.2840 .2840 .2991 .3161	.3363 .3538 .3538	.0067 .0798 .1145	1467 0325 .0522 .1308	2166 0748 0269 2968	2269 2269							
ALPHA (2) =	0.	.050 BE	BETA (3)		4.256 MA	MACH	1.3944	o	- 596	599.11	۵	- 440.18	BR/L	•	2.9098
SECTION (1)C	1 JOPBITER	R FUSELAGE	ŠĒ		DEPENDENT	IT VARIABLE	BLE CP								
X/LB .0	0000	.0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	. 2040	8510	.3010	.3780	.497Œ	5740
-	.459 6	. 7820	.3245	.1509	. 0937	.0189		0161		0161	.0001	.0203	.0049	0272	0329
40 .000 55.000			.3991	. 1653	. 1523	\$10. 81.50		0001		0234	**00·-	0232	0081	0464	0298
70.000 90.000 120.000		.6201	.4878 .5240 .5702	.2746 .3902	.1577	.0662 .0759		. 1059 . 1542 . 3623		0331 0348	2570 2702 2681	1894	15111681	0443 0492 0659	
			. 5905	.4888	.3105	.3056		.8219		1956 2458	3534	2415	2005	0842	
165.000 165.000 169.000								9466	6362	2141	3631	1859	<u>19</u> 4	0942	
1 000	9694.	.8620	.6161	.5208	.3765	.3692	se/a.	9719	·	3174	3382	2081	1695	1008	
хле . 6	6520	.7290	.7790	.8210	.8790	.9210	.9600	0666	1.0180	1.0460					
•	.0175	<u>\$</u>					1914		. 2509	604					
90.090 90.090 90.090 90.000	. 0087 . 6445	1182 -	- 0350 - 0350 - 1771	2860 2860 8160 1784		1018 0861 0975	2013 1035 1352 1756	:	. 1446	.1066					
i	7410.	.0081	.2857 .2871	. 2535 2895 2895 2895	0014	1008	3201	2846 2846							

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	- 2.9147		.4970 .574		.0134 .0185 1052 0893 0984	. 0659	.0595	0567				- 2.9147		0425. 0784.	.0233 .0156	.0089	1123 0941 0721
	B RN/L		.3780		. 0971 - 1741 - 1956	1732	1862	1686				S RN/L		.3780	. 6613	.0404	1486 1902 1673
I XERESS	= 440.18		.3010	.0547	1028 1727 3640	2896		2110				- 440.18		.3010	0440	. 0287	1559 2258 4227
	۵		.2510	.0286	. 1950 - 1860 - 1960	3951	3583	3894				<u> </u>		.2510	.0258	. 0636	2172 2363 2682
	599.42		.2040	.0253	. 0130 . 1581 . 1581 . 116	¥28	2415	3824	1.0460	. 3289		599.42		.2040	.0298	.0008	
ORB FUSELAGE	# 59		.1770				. 6921 . 6921		1.0180	.2310		*		.1770			
	ø		.1660	.0496 .0496	. 1216 . 1216 . 1265 . 2075	.8443	.9510	.9396	.9990		-2800	0		.1660	.0426	0540	3765 3765
-140A/B/C/R	1.3948	BLE CP	.1580				į	ķ	.9600	1307 1418 1033 1537	2504 1220 0775 2823	1.3948	BLE CP	.1580			
11-073(CA148)	MACH	INT VARIABLE	.1120	.0885	1091. 15041. 15031. 17145.	1575.		.2849	.9210	0769 0440 1080 1189	1799 0815 .0000	MACH	NT VARIABLE	.1120	0.300	.0820	9759 1717
.S 11-07	190	DEPENDENT	.0700	. 1765 . 1692	8555. 1575. 1575. 1575. 1585.	.2568		.2787	.8790	0278 0369 0500 1192	0326 .0329 .0849	4.246 H	DEPENDENT	.0700	9181.	- 5 - 5 - 5	1513
AMES	ج (ع		.0460	.2612 .2724	.3396 .3396 .3398 .3598 .403.	4374		.4232	.8210	.0389 .0412 .0295 .0374 .0550	.1350 .2520 .3393 .3899	3) = 4		.0460	9.50 5.73 5.73	. 2555. 2577. 25.75	2625 3380 3380
	BETA (?	AGE	. 0230	. 4405 . 4599	8126. 2002. 2003. 5003.	.5376		.4993	.7790	.0720 .0777 1955 1196		BETA (3	AGE	. 0230	.4356	1677	2003 2003 2097
	3.835	TER FUSEL	.0380	.9219	.7367			.7504	.7290	.0607 1773 1200	0416 0045	3.896 8	ER FUSEL	.0090	9109		.5836
		1) ORBITER	.0000	1.4731				1.4731	.6520	.0297 .0590 0614 0195	0217		1 1 OR31 TER	. 0000	1.4585		
	ALFHA (3)	SECTION (X/LB	PHI .020 20.000	55.000 76.000 99.000 00.000	• •	151.000 162.000 165.000		87/8	PH1 .000 70.000 90.000 105.000	155.000 155.000 155.000 165.000	ALPHA (3)	SECTION (X/LB	1.000.000.000.000.000.000.000.000.000.0	40.000 55.000	70.000 90.000 120.000

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	DITA 1 21 a 1 DAG
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DATE 19 FEB 76	A: PMA (3) .

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	jú					•		2.9146		'n	Ŗ	S,			
	ţ .	0679	0689	0845				•		M970	.0837	.074B	1078 1328 2852	1240	0892
	.3780	1939	2083	1963				RN/L		3780	.0980	. 1089	0287 0823 3409	2170	2027
	.3010	2836	2289	2461				440.65		.3010	.0722	.1159	0277 0652 3138	3812	3214
	93.0	4047	4030	3791				•		.23.0	0680	. 1283	1035	4339	+004
	.2040	1600 2644	2557	3617	1.0460	.3379		57.665		.2040	2999 2399	0920	2042 2216 1790	1153	2861
	.1770	5.55 6.45 6.45 6.45 6.45 6.45 6.45 6.45	6.		1.0180	.3585		* 599		.1770				į	.7192 2817.
	. 1660	.7899	.9018	9348	0666.		3046 3638	0		.1660	91116	1712	886 1988 1988	.8847	.9155
BLE CP	. 1580		į		.9600	1219 1436 1420 1774	3372 1774 1420 3274	1.3944	XE CP	. 1580					.8131
DEPENDENT VARIABLE	.1120	. 2243		.2689	.9210	0766 0491 1375 1396	2470 1417 0773	MACH .	IT VARIABLE	.1120	2131	.2153 .2153	2382 2825 2825 2825 2825	.2077	
DEPENDE	. 0760	.2264		.2821	.8790	0287 0311 0673 1423		.865 M	DEPCNDENT	.0700	.2593	3392	3.57 2.855 2.855	.2105	
	.0460	. 4043		4154.	.8210	.0537 .0534 0267 .0228	.0050 .2242 .2141 .2658	•		.0466	.3785	1484	3800	.3312	
AGE	. 0230	**6*		¥958	.7790		.1547 .2228 .2337 .2333	BETA (1)	IGE	.0230	.5563	7080	6915 6929 6073	.4533	
1) OHBITER FUSELAGE	.0080			.7246	.7290	.0557 1882 1215	.0193	7.947 86	LIORNITER FUSELAGE	.0080	1.0435		.8215		
	.0000			1.4585	.6520	. 0229 . 0438 0614 0099	.0017 0130 0227 0339	. 7.5	11088116	.0000	1.4371				
SECTION (X/LB	PHI 140.000 150.000	165.000 169.000	130.000	X/LB	PHI .000 40.000 70.000 90.000	110.000 120.000 135.000 150.000 165.000	AI PHA (4)	SECTION (X/LB		900	70.000 90.000 120.000	150.000	15.000 165.000 169.000 174.000

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DATE 10 FEB	B 76		TABULAT	IEO PRESI	TABULATED PRESSURE DATA	A - 0A148	_	AMES 11-073-1	•					PAGE	664
				AME	IMES 11-073'0A148)		-140A/B/C/R ORB FUSELAGE	./R ORB F	USELAGE			(XF8833)	(23)		
ALPHA (4)	Ħ	7.9.7	BETA (1)		-3.855										
SECTION (1) ORBITER	ER FUSELAGE	1SE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.0000	.0090	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	.*g70	.5740
PH1 190.030	1.4371	.6170	.3617	.3197	.1831	. IF 33		.8665		3809	4176	2688	2142	0561	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PHI 	. 1034 . 1390 1353 2991	.1171	.1336 .1496 2794 2366	.1004 .1132 .2278 .0324	.0408 .0188 1376 1372	0120 .0176 1352 1963	061** 0888 0927 2139	į	.4531	.4135 .656					
175.000 135.000 150.000 165.000	1807 0873 0583 0484	1736 0353 0246	.0781 .0594 .0528 .0755	.0692 .1249 .1259 .3281	0615 0480 .0351 .2476	1966 1307 0003 1290	2337 1243 0921 2978	3164 2983							
ALPHA (4)	. 7.5	7.946 BE	BETA (2)		.185 MA	MACH	1.3944	o	= 599.7 2		.	. 440.65	RNA	•	2.9146
SECTION (1)ORBITER	ER FUSELAGE	ਬੁ		DEPENDENT	IT VARIABLE	BLE CP								
X/LB	0000.	. 0580	.0230	.0460	.0700	.1120	.1580	.1660	0771.	.2040	989	.3010	.3780	.¥970	5740
PH1 .000 20.000	1244.1	1.0432	.5586	.3768	.2687 7.837	7.00		1167		9968	9770.	.0763	.1056	.0824	6080
40.000 55.000			6290	3956	2988 8885	17.		1436		.0632	.1013	.1018	.1009	6490.	.0769
70.000 90.000 120.000		.6886	. 5853 . 5656 . 5125	3328 3328 3252	.2383 .2383	1372 1845		1372 1372 1654		1502 1503 1036	1461 1643 1851	0826 1251 3578	0920 1386 3299	1533 1645 1713	
150.000			.4330	.3361	. 1865	. 1960		.7969	.6104 -	,	4361	3417 -	1845	0720	
155.000 159.000							;	.8907	•	2837	4003	2916	- 1980	0524	
180.550	1.4431	.609∙	.3796	.3344	.2017	. 1993	. 9479 8749	.8862	•	. 4164	4298	2500 -	2079	0465	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	. 9930	1.0180	.0460					
PH1 .000 +0.000	.0920	. 1234	1941 .	.1144	.0396	¥200	0478		37.15.	.4019 .2555					

.185

BETA (2) =

ALPHA (4) = 7.946

DATE 10 FEB 76

(XEB833)

				2.914B		.5740	.0753	.0559											
				•		0.6970	.080	.0430	1913	0598	0550	0355	0707						
				S RN/L		3780	1090	0060.	1441	2233	1824	2131	2119						
				• 440.65		3010	.0724	.0688	1322	5980	3287	2620	2725						
				•		.2510	2770.	.0608	1842	2523	4400	4305	409						
	1.0460			599.72		.2040	.0872	0340	. 1043 2043	. 0262 20262	2783	2924	4000	1.0460	.4165				
	1.0180			# 99		.1770					5145	2886		1.6180	.4705	.3109			
	3666.	i i	3369	0		. 1660	1109	1026	. 0658 858 878	3840	.7429	.0	.9939	0666.				1.3326 -3926	
BLE CP	.9600	1457 2067 2837	2784 1734 1188 2977	1.3944	BLE CP	. 1580							.86:7	.9600	0341	0866	2002	3603	1832
DEPENDENT VARIABLE CP	.9210	1610 2093 2993	2107 1296 0579	MACH	NT VARIABLE	.1120	i	1336	. 0835 . 0835	1348	. 1615		1901	.9210	0091	0003	3297	7175	1265
DEPENDE	.8790	1510 1929 2264	0834 0255 .0332 .2311	4.238 M	DEPENDENT	.0700	.2683	. 2328 . 2446	1729	1570	.1558		.2021	.8730	.0413		2135	1268	0140°
	.8210	1009 0162 .0505	.1446 .3661			.0460	.3764	. 3401 3401	ĸ Šůř	19.79.	.3:95		.3+03	.8210	.1082	1291	0286	0708	2. 3.
4GE	.7790	2881 2263 0346	940. 940. 9100. 9100. 9181.	BETA (3)	NGE NGE	. 0230	.5485	5344	.5020 .4765 7974	***	.3961		.3791	3677.	.1396	. 1682	. 1475 2759	4.	:::33
1) ORBITER FUSELAGE	. 7290	2482 1835	0413	7.944 EE	110RBITER FUSELAGE	.0080	1.0281		5400	<u> </u>			.5840	.7290	. 1249	2326	1692	0592	0107
	.6520	1358	0592 0389 0311	- 7.9		. 0000	1.4314						1.4314	.6520	0980	. 1040 . 1001	0605	0331	6755
SECTION (X/LB	PH1 70.000 99.000	120.000 135.000 150.000 165.000	ALPHA (4)	SECTION (נינפ	PH1	40.000 40.000	75.000 70.000	180.000	150.000	167.000 165.000 169.000	174.000 180.000	C/LB	PH1 .900	40.000	90.000	120.000	150.000

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·					ļ	2.912!		575	1,30	176								
						•		16	. 1515	.1451	0957 1349 4860	1587	1035		0589			
ļ	2 3					FRV.		.3780	1451	.1783	0151 0675 4337	2582	2183		2067			
	(XE8833)					£30.0£		3013	.1228	. 1805	0114		3599		2909			
						•		8. 5. 5.	.1438	.1757	0732 0993 1210	4706	4328		4368			
				1.0460		599.73		.2040	. 1639	1587	. 1386 1297 1297 1855	0753	3283		4071	1.0460	.3080 .3080	
-	USELAGE			1.0180		299		.1770				!	.6587 .6890			1.0180	.5668	
11-073-1	/R ORB F			ე666.		0		.1660	. 1883	.2012. 27.88	.2078 .1937 .1859	.8768		.853±	.8002	0666.		ፈሪያ የ
DAI48 (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE		LE CP	.9600	3281	1.3955	LE CP	.1580							.6709	.9600	9020. - 6250. - 6280. - 6280.	2368 1636 2041 3261
B 148			DEPENDENT VARIABLE	.9210	0807	MACH .	IT VARIABLE	.1120		185. 195.	2.469 	.1327			. 1223	.9210	.0802 .1067 0747	1387 1387 1348 .0236
RESSURE DATA -	AMES 11-073(0A148)	4.238	DEPENDEN	.8790	.1820	-3.851 M	DEPENDENT	.0700	.3565	. 3633	.3407 .3407 .8985	1439			.1204	.8790	. 1976 . 1947 . 1938	051 0588 0511 0515
a.	AMES			.8210	.2841	3.		.0460	4903	.5505	.5158 .4550 .5114.	. 2208			.:283	.8210	. 1993 - 2794 0878	.0663 .1365 .2298
TABULATED		BETA (3)	JOE	.7790	.1165	BETA (1)	IGE	.0230	.6763	7926	6792 5052	3507			2694	.7790	. 3619 - 3619 - 3619	0361 0369 1507 0956 0644
			1:ORBITER FUSELAGE	.7290	0075		1 ORBITER FUSELAGE	.0080	1,1489		.7681				.4e08	.7290	.3339 3504	1952 1735 0623
76		- 7.944	1:058170	650	0329 0466	• 11.859	1 1 ORBITE	. 0000	7887						1.3887	.6520	. 1787 1787 1787	1874 0793 0876 0876
DATE 10 FEB 76		ALPHA (4)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (X/LB	PHI	20.000	75.08 70.08 90.08	170.093 140.000	151.000	169.000	174.000	x/B	641 40.000 70.000 96.000	135.000 135.000 150.000 150.000 150.000

PAGE 502		L = 2.9121		0452. 0784.	. 1629 . 1435 . 1312 . 1523 - 1682 - 1949	0918 0562	0450			- 2.9121	6.75	•	.1032 .1197 -2320 -2320
	133)	FRV/L		.3780	.1565 .1582 0883 1289	1968	1990			FBV.	8	5 2	16291
	(XE8833)	₩6.9£+ •		.3010	. 1372 . 1372 . 0965 - 3502	3940	2725			+39.9°	6	. 1208	. 1191
		۵		.2510	.1304	4662	4578			•	Š	.1339	. 15t1
		599.73		.2040	1640 1129 1129 0623 0687 1638	.0233 2043 3155	4406	1.0460	.3204	599.73	ć	.1528	4400. - 00400. - 00000.
	FUSELAGE	= 599		.1770		.5900		1.0180	.5674 .4073	- 599	į		
AMES 11-073-1	98	O		. 1660	. 1894 . 1807 . 1986 . 1 193 . 1 193 . 3999	.8170	. 8265	0666.	2 45 28: -	ø	e d	. 1853 . 1580	01410 8440 5050
_	-140A/B/C/R	1.3955	RE CP	.1580		627		.9600	. 0353 - 0233 - 1239 - 2041 - 3264 - 3094 - 1627 - 3554	1.3955	ונב כם		
A - 0A148		MACH	IT VARIABLE	.1120	.2421 .2447 .1515 .1519 .181	1311	.1294	.9210	.0811 .0908 2150 2707 3524 1617 1124	MACH #	IT VARIABLE	. 2099	. 0280 . 0780 . 0780
RESSURE DATA	AMES 11-073(0A148)	.189 M	DEPL:NDENT	.0700	. 3650 . 3430 . 31.6 . 116 . 198 . 199	. 1225	. 1353	.8790	. 1338 - 25583 - 25583 - 3050 - 3050 - 6910 - 6910 - 6230 - 2261	4.253 MA	CEPENDENT	3554	2011
Č.	AME	n		. 0460	. 4900 . 4855 . 4817 . 3413 . 3078	. 2326	.2519	.8210	.1971 .2137 .2091 .1087 .0007 .0061 .3236	p	Ċ	. +821 . +506	. 3018. . 3018. . 3018. . 3018.
TABULATED		BETA (2)	ig.	. 1230	6736 6938 .7001 .7031 7.132 .5134	T58.	. 2669	.7790	2423 2558 2558 - 3948 - 3013 - 1999 - 1055 - 1055 - 1055	BETA (3)	GE	.6648 .6377	6000 6000 6000 6000 6000 6000 6000 600
		.955 BE	ER FUSELAGE	.0000	1.1496		.4653	.7290	. 2019 2355 2355 1210 0873	.860 BE	R FUSELAGE	1.1375	979
8 76 5		5.11	110RB17ER	0000.	1.3931		1.3931	.£320	. 1740 . 2087 . 1422 . 1422 . 1932 . 16588 . 16588 . 16588	= 11.8	110R31TER	. 38th	
DATE 10 FEB		ALFHA (5)	SECTION (X/LB	PHI 2000 2000 2000 2000 2000 2000 2000 20	150.001 150.000 151.000 162.000 165.000 165.000	180.000	K/LB	PHI .000 70.000 70.000 105.000 110.000 120.000 185.000 165.000	MPHA (5)	S.CTICN (PH1 .000 20.000	55.000 76.000 76.000

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	
DATE 10 FEB 76 T	

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AMES 11-0:310A148) -140A/B/C/R ORB FUSELAGE

3740 .2342 ST. -.1072 -.1310 -.4181 -.0538 .4970 **.**4970 .2215 -.0618 .2285 -.3085 -.0750 -.0145 -.0572 -.5124 .3780 .2113 .3780 -.1749 .2462 - 198t -.2061 -.3078 14.044 -.2916 -.2813 .3010 . 1910 -.0166 -.0251 -.2979 -.4787 .3010 -.3560 .2227 -.0715 -.0908 -.1244 .83.0 -.5107 -.4699 6844.--.4301 .2510 .2323 .2096 -.4232 23.75 22.16 13.08 12.18 12.18 1780 1780 -.0248 -. 3247 -.0700 .2040 .2040 1.0460 .4755 599.93 .1770 . 5579 .5712 .4045 1.0180 .1770 .9990 . 1660 .7607 .8216 .1660 .6671 .2672 .2825 .3122 .1859 .1790 .1576 7902 -.2183 -.2183 -.2149 -.3359 .9600 .0458 -.0320 -.2275 -.2629 -.3886 . 1580 .6742 . 1580 MACH = 1.3950 C.PENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 . 1120 .0807 .0699 -.2935 -.2956 .1179 .9210 -.3032 -.1723 -.1443 -.0884 3429 3827 2377 2377 1611 0831 0645 .1264 .1139 -.2356 -.3008 -.1688 -.1029 -.0411 .0700 .1356 . 1038 .0700 .0628 .8790 4622 4631 5067 4143 3259 2735 0835 BETA (1) = -3.830 4.253 .1933 .2137 -.2124 -.1404 -.0803 -.1315 .1461 .2821 .0460 .2516 .2276 .8210 .3516 .0460 5976 6211 6385 5334 3749 2233 1142 BETA (3) . 0230 . 2953 .2636 .7790 . 0230 2483 . 2501 - 3757 - 2501 - 0657 . 1967 . 8388 . 8626 . 7580 . 5578 . 5678 SECTION: 1 10RBITER FUSELAGE SECTION (1) ORBITER FUSELAGE . 0080 -.3335 -.0945 -.0392 .0080 .2070 . 7290 .4387 1.3183 1.2451 .7061 * 15.8⁴9 11.860 -.0406 -.0383 -.0567 .0000 .1612 .1721 -.2170 -.115i -.0742 1.3842 .6520 .0000 ALPHA (6) ALPHA (5) .020 40.000 70.000 105.000 1119.000 135.000 135.000 150.000 150.000 160.000 PH1 150.000 151.000 162.000 165.000 174.000 X/LB X/LB

-.2453

-.4007

-.4652

-.3764

.6288 .6457

15.849

ALPHA (6) =

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE BETA (1) = -3.830

	.5740					2.9147		.5740	.2348	.2270							
	.4970	0703				•		M970	.2347	.2059	1987	3163	1000	0625	0516		
	.3780	1916				FAVL		.3780	.2196	.2085	0828	5210	2375	1834	1747		
	.3010	3026				440.41		.3010	. 1969	.1767	0772		*****-	3329	2823		
	.2510	4576				•		.2510	.2151	. 1619	1093	1764	616 4	964h∵-	477E		
	.2040	4395	1.0460	.3697		599.93		.2040	1849.	. 1572	.0540	1142	1632	3470	4609	1.0460	.5315
	.1770		1.0180	.4912		- 599	• • •	.1770					076	6078		1.0180	.6679 .4982
	. 1660	1757.	0666.	: :	. 3338 . 3338	o		.1660	2705	, 25 26 26 26 26 26 26 26 26 26 26 26 26 26	.1020	3198	.63+0	.7378	.7661	.9990	
RE CP	.1580		.9600	.0897 .0237 1456 2179	2758 2117 3006 3482	1.3950	LE CP	.1580							.6453	.9600	.1138
DEPENDENT VARIABLE CP	.1120	.0654	.9210	.1575 .1608 3711 2999	2731 1770 2716 0523	MACH .	DEPENDENT VARIABLE	.1120	j	3122	1418	.0581	.0677		.0713	.9210	.1668
DEPENDEN	. 0700	.0540	.8790	.2426 .2168 4375 2649	1904 1955 3661 1686	.186 M	DEPENDEN	.0700	. 4698	1011	. 2313 . 2313	. 0669	.0588		.0725	.8790	. 2494 . 2762
	.0460	.1403	.8210	.3048 .3180 4578 1913	.0969 .0425 .1447			.0460	.6029	.5630	.3302	.1735	.1360		. 1695	.8210	.3152
GE	. 0230	. 1548	.7790	.3229 .3518 5203 3720	1068 0370 1739 1996	BETA (2)	je Ge	.0230	. 7968	.7639	5339	.2510	.2294		. 1625	0677.	.3546
1) CRBITER FUSELAGE	.0080	3179	.7290	.2995 4377 3094	1930 3207 0993		110RBITER FUSELAGE	.0080	1.2508			5886.			.2880	.7290	₹662.
1) CRBITE	. 0000	1.3183	.6520	.3762 .3163 2514 1415	2828 1179 0773	. 15.853	1 JORBI TE	.0000	1.3240						1.3240	.6520	.2675 .2919
SECTION (л.в	PH1 180.000	ሊ ፀ		10.000 150.000 150.000 150.000 190.000	PH4 (6)	SECTION (/LB	PHI .000	£6.000	25.000 70.000	120.000	150.000	162.000 165.000 165.000	174.030 180.030	/ኒ.b	PH1 .000 .000

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(XEBB33) 1.0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 1.0180 9990 -.3989 -.3228 -.2302 -.2617 -.3601 .9600 DEPENDENT VARIABLE CP .9210 .8790 -.4568 -.2543 -.0805 .8210 -.0103 .0058 .2558 BETA (2) -.5409 -.3966 -.2831 -.0807 .0088 -.1841 -.1036 .7790 SECTION (1) ORBITER FUSELAGE .7290 -.4833 -.1587 -. 1691 -.0544 15.859 -.1500 -.0748 -.0706 -.3404 .6520 -.1180 ALPHA (6) 70.000 90.000 105.000 110.000 135.000 150.000 150.000

2.9147 N. T. 440.41 599.93 1.3950 DEPENDENT VARIABLE CP 4.283 MACH = BETA (3) SECTION (1) ORBITER FUSELAGE = 15.851 ALPHA (6)

.3010 .1977 . 1202 .2510 .2102 ₩690. .2369 .1977 .0845 .0407 .0098 .1060 .0588 .2040 .1770 . 2723 . 2353 . 1662 . 0026 . 0346 . 0435 .1660 .1580 .1120 .0700 .0460 .0230 .0080 1.2385 .0000 1.3191

.5740

.4970

.3780

.2035 .2301

.1691

.2240 .1720

.2157

-. 2854 -. 2449 -. 2012

-.1496 -.1716 -.4819

-.1270 -.3652

-.1433

-.0731

-. 1802

-.3798

-,4886

-. 9486

-.1745

-.2866

-.4568

.3487

.7102

.4690

.6024

-.0662

-. 1978

-.3000

1911.

-.4539

1.9460

1.0180

9880 .7601

5326 ::924

.5017

.1145 .0262 -.2255 -.3343

.1502 -.3628 -.3696 -.5219

.2288 .7170 -.4709 -.3949

-.4213

-.3898 -.2828 -.2129

.2412 .2412 .0250 .0768 .0313 4616 4102 4102 3646 2038 1459 1134 .5942 .5527 .4835 .3043 .2294 .1911 .7912 .7535 .6574 .4986 .4138 .3889 .3895

.5942 .9600 .0548 .0593 .9210 .0816 .8790 .1362 .1638 .8213 .1618 .730 .2737 .7290 .6520 1.3191 20.000 55.000 70.000 90.000 90.000 120.000 110.000 1110.000 1171.000 1174.000 X/LB

.3389 .3600 -.4994 -.3978 .3137 40.000 70.000 90.000 105.000 110.000 120.000 135.000

.2978 .3075 -.4273 -.2645 -.1696 .1875 .0573 .2340 -.0418 -.1781 -.1093 -.4499 -.1311 -.0855 -. 0968 -. C780

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/F ORB FUSELAGE

ALPHA (6) = 15.851 BETA (3) = 4.283

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

.9990 1.0180 1.0460 0096. 0156. 0879. 0158. .7290 .7790 .6520 X/LB

PH1 165.000 -.0552 -.0831 -.083 -.3575 -.3575 180.000 -.0742 -.1015 -.1009 .2503

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8 8					.4970	0982	1259	.0222	9. 9	0709	08·	0947			
~	DATA	SPOBRK L-ELVN MACH	AN.		.3780	0685	0937	0732	1276	1281	1403	1622			
(XE8834)	PARAMETRIC	10.000 16.300 10.000	550.40		.3010	- 0582	1486	1314	_	2287	-, 2282	1775			
	<u>a.</u>	RUDDER = BOFLAP = R-ELVN =	•		.2310	0170	2049	0.750. I	1776	3910	2919	3707			
		282	600.05		.2040	0083		0757	0.00	- 1948	2610	3693	1.0460	. 0190	
FUSELAGE			. 60		.1770					.6526	5117.		1.0180	. 2245 . 0381	
C/R ORB I			O		. 1660	0202	0426	. 1912 - 1912 - 1912	7497.	. 9259	. 98 06	.9130	.9990	Š	
-140A/B/C/R ORB			1.2480	RE CP	. 1580							1.0520	.9600	2970 3731 .0339 0669	0494 .0329 .0567 3151
		828	MACH .	NT VARIABLE	.1120		0662 0616	. 1231 .2696 .2696	. 5253	.6102		.6078	.9210	2503 1948 .0596 0383	0347 .0672 .1503 .2374
AMES 11-073(0A148)		3800 IN. 3000 IN.	-3.845 M	DEPENDENT	.0700	5100.	0143	3170	. 4853	.5387		.5272	.8790	1962 2090 .1501 .1253	.0147 .0550 .1565 .4354
AME		. 1076.6800 .0000 . 375.0000			.0460	.0632	0773	300 x .	1995. 1419.	.6471		.6127	.8210	1215 1234 .3149 .2745	.4897. .4897. .4752.
	<u> </u>	XMRP *	BETA (1)	GE	.0230	1851	- 101.5 6.10+	c34c.	1387. 1805.	. 7929		.7332	.7790	0562 0892 0108 .1795	.4294 .4720 .4710 .4536
	REFERENCE DATA	SD.FT.	đ	R FUSEL	.0080	6275		1	.9835			1.0075	.7290	0249 .0043	. 1007
	REFER	2690.0000 474.8000 936.0680	+90·4- =	1) ORBITER FUSELAGE	.0000	M 101						1.4043	.6520	.0041 0683 .0816	.0643 .0340 .0187
		SREF = 22 LREF = 22 SCALF =	-	SECTION (x/LB	PH1	20.000	55.000 70.000	26.360 170.000	150.000	162.000	174.000	X/LB	PH1 .300 .40.000 70.000 90.000	110.000 120.000 135.000 150.000 165.000

建设度设置 你这样可以这种,他就是他就是这个人的,我们就是这个人的,我们们的,我们们的,我们们们的,我们们们的,我们们们的,我们们们的,我们们们的,我们们们们

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PAGE (XE8834) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE DATE 10 FEB 76

57.60 570 -.0639 - 92M 3.0137 -.0304 -.0341 -.0861 .4970 -.0967 07**€**₹. -.0785 -.0880 -.0620 -.0893 -.0848 -. 0937 Z -.0792 -.1210 -.1573 3780 -.0214 -. 1682 -. 1814 .3780 -.0238 -.2217 -.1617 -. 1891 550.87 -.1969 -. 1639 -.0988 -.1988 -.4110 .3010 -.0092 -.2998 -.1747 .3010 -.0669 -. 3034 -.2517 -.2305 -.1792 -.0767 -.4527 .83 -.3510 .85 .0274 -.3977 -.4143 -. 3934 ٥. -.3840 -0198 -0198 -0198 -01983 -01984 -01986 -01986 -01986 -.3176 -.31**92** -.3289 -.em .2040 1.0460 .2040 . 1892 **=** 600.19 0771. .1770 .4625 .5634 1.0180 . 2302 . 0865 .6364 .6777 9990 -.3016 .0180 .0183 .0199 .1680 .2316 .2764 .9439 . 1660 9003 .1660 .7702 .9050 .9291 0 -.2628 -.1503 -.1276 -.3687 .1580 - .2826 - .3276 - .0714 - .0869 - .1520 1.0078 .9600 MACH = 1.2476 .1580 .9895 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .1120 .9210 -.2444 -.2032 -.0381 -.0850 -.2347 -.1112 -.0595 .0360 .00470 .0470 .1925 .2755 .3203 .5207 .5088 .6017 -.1983 -.1980 ::33.6 :0097 -.0602 -.1500 -.0424 .0662 .2848 .0700 .0692 .0697 .1397 .2238 .3713 .4023 .0700 .8790 .4457 .527 .4071 BETA (1) = -3.867 -.1193 -.1039 -2716 .2739 .1893 .4270 .4270 .4508 .0460 .1627 .1812 .2380 .3729 .4332 .4332 .4804 5355 .0460 .6200 .8210 .5691 # BETA (3) -.0549 -.0474 -.0474 -.225 -.3088 .4098 .4098 .4368 .4416 .4599 .0230 6815 . 0230 .¥10 .3029 .3400 .5097 .6287 .6337 .7194 .6865 .7790 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0090 -.0176 .1396 -.0107 . 1265 .0380 .7614 .8986 .7290 5275. .1161 -.032 150.4 -.0101 -.0101 .0639 .0183 .0095 .0059 . 0000 .6520 .0577 0000. 1.4133 1.3947 ALPHA (1) = ALPHA (2) 20.200 20 . 000 70 . 000 70 . 000 105 . 000 110 . 000 120 . 000 150 . 000 150 . 000 150 . 000 150 . 000 PHI 140.000 150.000 151.000 162.000 165.000 169.000 174.000 X/LB

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			.5740					3.0137		.5740	.0542	0320						
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			.3010	, 16.4°.						.3010	0021 -	- 1640	1718		8012.	2142 -		
			.8510	4237						.2510	- 0320	- 9440.	3012 2955 2672		- 3914 -	4827		
			.2040	9614.1		. 2400 . 1081				.2040	.0416	- 0288			. 325.	. 4550	1.0460	.2552 .0997
USELAGE			.1770	·	1.0180	.2812 .1531		s 600.19		.1770		•	• •			•	1.0180	.3013
/R ORB FI			.1660	.8690		. : 2356 - : 2466		σ		. 1660	0140	0460	. 1789 . 2098	.8231	9185	.9620	. 9990	
-140A/B/C/R ORB FUSELAGE	32 BETA (1) = -3.867	DEPENDENT VARIABLE CP	.1580		.9600	2224 2912 0118 0715	1235 0444 0077 3213	1.2476	E CP	.1580					! !	.996. 7	.9600	2158
AKES 11-07310A148) -			.1120	.516¥	.9210	1767 1035 0207 0482	1221 0323 . 0678 . 1650	Ħ	VARIABLE	.1120	7810	£440.	. 1813 . 2295 4058	. 1945		.5279	.9210	1726 -
			.0700	.3979	.8790	- 1195 - 1349 - 0760 - 0198	0447 0207 .0531 .3681	. 184 МАСН	DEPENDENT	.0700	.1070	1197	. 23.19 . 23.19 . 4.78 . 4.78	3729		.409 <i>2</i>	.8790	1189
AFES			.0460	.5021	.8210	0470 0435 .1756 .1495	. 2210 . 3564 . 3665			.0460	.1552	9661	3675	5125		. 5029	.8210	0422
		1) ORBITER FUSELAGE	. 0230	.6065	0677.	. 0128 - 0086 - 1676 - 0486	.3316 .3877 .3739 .3684 .3584	(A (2)	¥	.0230	.3053	18481	. 6778. 6778. 6128.	.6407		.6210	3677.	. 0136
			.0000	.8818	.7290	. 1035 1035	0156 .0482	9 BETA	1) ORBITER FUSELAGE	.0080	.7595		.7595			.8652	.7290	.0207
	032	1) ORBITER	.0000	1.4133	.6520	. 0192 0164 . 0095	. 0016 . 0089 . 6067 . 0028	29	ORBITER	.0000	1.4178					.4178	.6520	.0169
	ALPHA (2)	SECTION C	X/LB	PH1 180.000	X/LB		135.000 150.000 165.000	ALPHA (2) =	SECTION ()	X/LB		40.000 40.000	70.000 90.000	140.050	162.000 165.000 169.000	1 74.000	X/LB	PH1 .003 +0.000

PAGE 511									. 3.0137		0426. 0764.	06140624	07940367	0501 0446	0512	0621		0803							
	(XE8834)								B7 RN/L		.3780	0263	0341	1734	1711	2269 -	- 3535 -	2012 -							
	2								- 550.87		.3010	9100.	0492	3230	5308	265¥	2255	2345							
									۵.		.2510	.0200	0241	3520	3577	4361	4734	4108							
				1.0460					600.19		.2040	.0198		. 1032 - 1032	- 1254 - 2002	3737	3331	4363	1.0460	č	. 1006				
-	FUSELAGE			1.0180					- 80		1770					1634	15 m		1.0180	i de	151.				
0A148 (AMES 11-073-1	-140A/8/C/R ORB FUSELAGE			J666 ·	8	£833 £833			O		. 1660	0020	.0510	382	.3145	.7486	.8733	.8928	. 9990				3374	3371	
B (AMES	-140A/B/		BLE CP	.9600	0701 1122 1873	2184	. 0366	3309	1.2476	PLE CP	.1580						i	8	.9600		76.5	1569	2265	3192	1609
1			DEPENDENT VARIABLE	.9210	0676 0856 1578	1794	0148	. 0627	MACH .	DEPENDENT VARIABLE	.1120		09:-	000 ±	.3192	.4373		.5082	.9210	1730	1367	1300	- 1984 - 1	2843	- 0356
PRESSURE DATA	AMES 11-073(0A148)	.194	DEPENDE	.8790	.0261 0161 0912	0778	.0583	0262:	4.251 M	DEPENDE	.0700	.1107	. 1015	1453 1458	.2207	.3329		¥00¥.	.8790	9061	- 1281	0017	1427	1662	. 02·50.
	AME			.8210	.1708 .1296 .1251	1768	3908	.4785	<i>i</i>		.0460	.1582	1569 1569	. 2500 . 2599	क्राप्ट	.4753		.5107	.8210		0310	. 1863		.0290	
TABULATED		BETA (2)	ige roe	.7790	1241 .0789 .2100	1.9941	34.46	3801	BETA (3)	Ę	.0230	.2990	3783	5106	.5651	. 5939		.6248	.7790					.2462 20.00	
		029 68	IR FUSELAGE	.7290	1123	. 0323	. 0789	.0832	035 BE	11 ORBITER FUSELAGE	. 0080	7487		.6118				.8527	.7290		9	- 1149		.0422	£1.0.
376		1	110RBITER	.6520	0040	.0367	.0282	.0183 4710.	a a	11000116	.0000	1.4075						1.4075	.6520		. n289	0072 .0249		.0370	.6171
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.0289 .0332 -.1318 -.1863 -.2213 - 1858 -.2125 -.1509 -.2059 -.4615 -. N. 288 .0138 .. 3709 -. 2626 -.2655 -.2692 -.2692 .0757 .0447 -.5134 -.5133 1044.-7590. 10598. 10591. 1059. 1059. 1059. 1059. -.3703 1.0460 1.0180 0538 0637 1105 1105 1813 2006 2368 4374 8630 9990 9779 7934 .9376 .9600 -.1388 -.1869 -.1082 -.1911 -.0954 -.0606 -.1374 -.1493 .0796 .1059 .1442 .1678 .1848 .9210 1617 2075 2075 2512 2512 2583 2283 .8790 -.0358 -.0505 -.0603 -.0999 .8210 2759 2057 3057 3458 3451 3590 3999 5762 5762 5762 5899 5795 5795 .130 -.1860 -.0330 .7243 .7290 .0823 .8876 .0317 .0374 1.4059 .0353 .0641 .0708 .0266 -.0181 .6520 20.000 25.000 27.000 17.000 17.000 165.000 165.000 165.000 165.000 165.000

ore: -.0198 arg. -.0394 - 89° -.1822 -.2187 -.1571 \$ 0.0° 3780 .02g .3010 .0520 .0092 -2022 -2611 -5107 Š .0447 8,0% W.59 W.45 .059 .0440 .0440 .0440 .0702 .0702 .0301 . 20±0 399.4B 1770 . 1660 9467 9415 9715 9715 9715 9715 9715 .1580 1.2463 DEPENDENT VARITALE CP .1120 0538 0686 0649 0781 2366 4.244 MACH .0700 1481 1481 1515 1615 1615 1695 1688 25.00 × 5 .0230 4129 4519 4519 4717 4689 4689 4689 110PD11ER FUSELAGE .0080 8728 0000 1.3939 20.000 75.000 76.000 120.000 SECTION

148 (AMES 11-073-1)
TABULATED PRESSURE DATA - DAI48
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AMES 11-07310A148) -1+0A/B/C/R ORB FUSELAGE

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			e e							3.0133		P.	85.5	9070.				
			65.	0509	0549	0648						£976	525	.0515	. 1563 - 1755	11%	0823	
j			5780	- 3115 -	2375 -	- 355.				PRV.		3780	9399	£11.	0619 1269		2149	
7			900	3231	2705	2788				550.87		3010	.0929	0060.	0605 0989 4039	TT.*-	*077	
			50.	5003	5126	4569				•		3000	1001.	.1298	1980		5162	
			.2040	2607	3775	4869	1.0450	.3210 .1622		600.07		.20% 0.40%	.0982			. 2006 - 2006	4189	
USELAGE			.1770		.5173		1.0180	.2336		- 600		1770					. 5975 6248 6448	
-1+0A/B/C/R ONB FUSELAGE			. 1660	. 7 <u>8</u> 1	.834¢	.858.	9880	QC P	- 3553	a		.1660	.1169	1847	25.55 1.05.05	.8549	.8789	
1+04/B/C		רב כם	.1580			.8917	.9600	1208 1847 1596 2142	4157 2555 2192 3526	1.22	الله CP	. 1580						
		T VARIABLE	.1120	.3485		.3997	.9210	0937 0684 1635 1785	3325 2085 1450 0500	MACH	IT VARIABLE	.1120		. 1590	¥. \$. \$. \$. \$. \$.	.2323		
AMES 11-07310A148)	4.244	DEPENDENT	.0700	.2216		.2786	.8790	0367 0538 0758 1308 2616	1855 1316 0476	-3.866 M	DEPENDENT	.0700	.2569	3250	.3653 .3287 .3099	1808		
AMES			.0460	.3903		.4153	.8210	.0395 .05%2 .0239 .01%0	0223 .2405 .2391 .3064			.0460	.3812	. 4534.	. 4569 4363 4383	.3356		
	BETA (3)	ы	.0230	1951		.5040	.7790	.0914 .1075 2051 0116	. 1667 . 2512 . 2679 . 2679	BETA (1)	¥	. 0230	1848.	. 5925 . 6980	. 59.50 . 69.69 . 6517	900. 400.		
		R FUSELA	.0080			.7115	.7290	.0815 1974 1278	0153		1) ORBITER FUSELAGE	.0080	1.0048		.80 8.			
	3.934	1) ORBITE	.0000			1.3939	.6520	.0200 .0660 0651 0217	.0157 .0134 .0028	- 7.988	1) ORBITE	.0000	1.3694					
	ALPHA (3)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 140.000 150.000	162.980 165.980 165.080	174.000	X/LB	PHI 000 000 000 000 000 000 000 000 000 0	110.000 120.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	P#1 .000	20.000 40.000	55.000 70.000 90.000	140.000 140.000 150.000	151.000 162.000 165.000 169.000	

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PAGE				£970	0635					•		6764.	.0521	.0391	2000 1669 1679	- 0695	0485	0431	·	
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	(XE8834)			.3010	3210					- 550.87		.3010	. 10%0	.0757	1361 1729 4519	4234	3314	2991		
				.2510	5044					<u> </u>		50.	. 1045	.1132	2177 2470 2697	5553	4821	5501		
				.2040	5131	1.0460	.3807			600.07		.2040	1086	1032	7.55 5.55 5.55 5.55 5.55 5.55 5.55 5.55	3308	4115	5482	1.0460	.3769 .2295
_	FUSELAGE			0771.		1.0180	. 3304			• 60		.1770				2963	5708		1.0180	.4932
AMES 11-073-1	./R ORB !			. 1660	. 7949	.9990		. 255 255 255 255		ø		. 1660	1181	26.4	2007 2007 2007 2007 2007 2007	.7638	.8319	.8208	0666	
-	-140A/B/C/R ORB FUSELAGE		RE CP	.1580		.9600	0696 1374 0360 1254 2956	2811	1.00	1.2474	RE CP	.1580						9698	0396	0535 1335
A - 0A148			IT VARIABLE	.1120	. 2299	.9210	0174 .0140 1213 1668	2445 1497 0485	900.	MACH =	IT VARIABLE	.1120		1832	¥2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	.2219		.2499	.9210	0139
PRESSURE DATA	AMES 11-073(0A148)	-3.866	DEPENDENT	.0700	174	.8790	.0516 .0320 0851 1673	1127 0836 .0228	cico.	.186 M	DEPENDENT	.0700	7473.	28.75. 2802.	27.5. 20.5. 2183 2.9.3	. 1556		.1837	.8790	.0539
	AMES			.0460	.3186	.8210	. 1292 . 1375 1447 0216 . 0423	. 1681 . 2098	.4268			.0460	.3868	3936	. 3817 . 3518 . 3421 . 3355	.3378		.3230	.8210	1347
TABULATED		BETA (1)	Ř	.0230	.3704	.730	. 1769 . 1769 2759 624	. 1049 . 0916 . 0856	1846	BETA (2)	iGE	.0230	ST.	.5569 .6147	. 5600 5687 1812 5103	.4355		.3865	.7790	. 1926 . 2063
	•		R FUSELA	.0080	.6017	.7290	2570	1614	0002		R FUSELA	.0080	1.0062		.6706			2685	.7290	.1506
37.6		- 7.988	1) OPBITER FUSELAGE	. 0000	1.3694	.6520	. 1126 . 1390 1394 0955	1746	0339	- 7.987	11 ORBITER FUSELAGE	.0000	1.3752					1.3752	.6520	.0903 .1167
CATE 10 FEB		ALPHA (4)	SECTION (X/LB	PH1 180.000	X/L6	PH1 .000 40.000 70.000 90.000			ALPHA (4)	SECTION (X/LB	1Hd 000.	20.000 40.000	55.000 70.000 90.000 120.000	150.000	152.000 165.000 169.000	174.000	X/LB	PHI . 000 . 000

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					F S	, 1		Ļ	ま	. DA							
					(•		. 4970	.0509	3600 .	2053 1610 0973	0455	0451	0595			
						1/64		.3780	0060.	£.90.	1811 2305 2220	1869	2225	2281			
					1	550.87		.3010	.1029	.0629	1834 2256 4897	3588	3033	3122			
						•		98.	.0925	.0889	2538 2939 3304	- 2568	5323	. 4900			
		1.0460		•				.2040	.0923	7650.		- 1869 - 4111	. 1814	5273	1.0460	. 3845	
		1.0180				= 600.07		.1770			·		966h.	·	1.0180	.3333	
		. 989c	7603	3367 3367		o	•	. 1660	.1050	. 1024	. 1367 . 1367 . 1860 . 3677	.7051	.8021	.8217	.999		. 3596 3596
	LE CP	.9600	1195 2262 2837	- 3566 - 2435 - 1931		1.2474	LE CP	.1580						.8360	.9600	0518 1361 1832 2785 3196	4551 2856 2561
	DEPENDENT VARIABLE	.9210	1835 2002 3118	2848 1925 1268		MACH .	IT VARIABLE	.1120		1840 1874	.0713 .0727 .0701	.1824		.2123	.9210	0106 0125 2434 1943	3537 2373 2007
.186	DEPENDEN	.8790	1106 2255 2892	1591 0834 0200		4.237 MA	DEPENDENT	.0700	.2716	.2356	.2003 .1628 .1468	.1275		.1765	.8790	.0519 .0326 1438 2242	2103 1431 0900
		.8210	0972 0087 0615	.0431 .2435 .4439	.4710			.0460	.3854	3368	8 5 5 5 5 5 5 5 5 5 5 5 5 5 7 5 7 5 7 5	.3149		.3340	.8210	.1316 .1458 0952 0424	0929
BETA (2)	Ä	.7790	3154 2589 0303	. 1142 . 1169 . 1679	.2302	BETA (3)	Se Se	.0230	5385	.5211	5584 7584 7584 8584	. 3990		.3910	.7790	. 1855 . 2088 - 3101 - 1347	.0894 .1947 .2335
	R FUSELA	. 7290	2493 1926	0831	.0006	. 988 BE	110ABITER FUSELAGE	.0080	.9968		.5286			.5720	.7290	. 1513 2858 1816	0662
- 7.987	1) ORBITER FUSELAGE	.6520	1346 0764	0181	1010:-	= 7.9	1 1 0 RB 1 TE	.0000	1.3624					- 38 - 38 	.6520	.0829 .1031 1143 0519	0115
ALPHA (4)	SECTION (x/LB	PHI 70.000 90.000 105.000	110.000 120.000 135.000	180.000	ALPHA (4)	SECTION (X/LB	PH1	20.000 40.000	25.000 20.000 20.000 20.000	140.000	162.000	174.000 180.000	X/LB	PHI . 000 40. 000 70. 000 90. 000	119,000 120,000 135,000 150,000

TABULATED PRESSURE DATA - DAINB (' 11, 73-1)	AMES 11-073(0A148) -146A/B/C/R ORB FUSELAGE	
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DATE 10 FEB 76		

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5740 .1305 .1630 3.01 .4970 . 1206 .1248 - 152 - 1921 - 404 -. 1007 -.0621 -. 1551 3780 . 1663 -.0577 -.1201 -.5953 -.2718 -.2364 -.2089 17971. 552.28 -.0483 -.0728 -.3813 .3010 .1300 .1573 -.5325 -.4451 -.3377 -.5935 -. 1233 -. 1690 -. 2037 -.5315 -.9556 .8310 .1440 .2010 -.4613 -. 5450 .4316 .2787 1.0460 .2040 1586 1586 1728 1728 2092 1953 1953 1787 1787 1.0180 1.0460 599.75 .5812 .5977 1.0180 .5048 .1770 9866 .8469 . 1660 .1916 .2015 .2488 .1982 .2358 .642 .7613 9880 8392 .1580 -.0017 -.0933 -.0901 -.1608 .7846 .9600 .9600 -3.850 MACH = 1.2455 -. 368¥ DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .0368 .0649 .1178 .1453 .9210 .9210 .1239 -.1292 2556 2008 2556 2610 2014 1746 1400 11211 -.1765 -.1395 -.1717 -.1812 .0700 ₩60. .8790 . 1236 . 0915 . 1341 . 2326 .8790 3573 4122 3263 3263 3180 2794 1763 .1151 .8210 .3939 .0592 .1774 .3086 .2356 .8210 .0460 .2307 .4803 .5058 .5117 .4034 .4034 .4034 BETA (1) = -.0062 .0000 -.0430 .0500 . 1866 . 1624 .3573 - .4134 - .5757 - .5757 .7290 .7790 .0230 .6637 .7098 .7763 .7346 .6616 .6010 3372 2552 .7790 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE **86.7** ₩600. -.2100 -.3808 .4609 -.2067 -.0506 .0090 .7508 .7290 .2671 1.1143 11.921 . 6520 1.3192 -.1897 .0000 .3192 .6520 -.0148 MLPHA (5) PHI 165.000 180.000

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	3.0144		.5740	1332							3.0144		57.0	.1297	
	٠		.¥970	.1285	2225 2516 2235	0903	0493	3			•		.4970	.0719	3028 2431 1412
<u> </u>	RN/L		.3780	.1610	1283 1818 5488	- 2002	9761	20.			FN/L	••••	.3780	.1205	- 1963 - 2365 - 3559
(XE8834)	552.28		.3010	.1588	1221 1469 4331	4731	3€88	3213			552.28		.3010	. 1030	1737 1989 4700
	•		850 810 810	.1533	1751 2230 2653	5903	5158	5749	•				50 50 50 50 50 50 50 50 50 50 50 50 50	.1380	2095 2660 3241
	599.75		.2040	1750 1573 1207	1584	3161	4467	5738	0.10	8424. 0175.	599.75		.2040	1536 1020 1050	
USELAGE	- 595		.1770			. 5210 9057		9	1.0180	.5798 198 198	- 599		173		
/R ORB F	o		. 1660	.2022 .2022	1244 1963 4272	.7464	7187.	. 7849	9666.	₹6₩. • 3588 • •	o		. 1660	1.1882 1.1843 1.366	.0371 .0061 .3783
-140A/B/C/R ORB FUSELAGE	1.2455	LE CP	. 1580				.7924				1.2455	LE CP	.1580		
	MACH	IT VARIABLE	.1120	.2255 .2407	1522 1246 1322	. 1319		.1357	9. 19.	. 0527 . 0539 2683 2683 4120 3064 2269 1697	MACH .	IT VARIABLE	.1120	. 1953	.0706 .0706 .0496
AMES 11-073(0A148)	.189 MA	DEPENDENT	.0700	.3699 .3445 .3645	2022 2015 1371	£763.		.1133	06/a.	. 1261 . 1011 . 2469 . 3452 . 3452 . 3452 . 1361 . 0556 . 1538	.253 MA	DEPENDENT	.0700	.3557 .3086 .2013	. 1932 . 1470 . 1255 . 0953
AMES	9		.0460	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	3424	248g.		5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	9610	. 2187 . 2335 . 2308 . 1003 . 0004 . 1586 . 4201 . 4201	*		.0460	2884 9844 4604	. 2095 . 2095 . 1963
	BETA (2)	ige GE	.0230	.6808 .6808 .6884	.5020 .5020 .4121	.3210		.2667	B6//.		(E:1 V:3)	19	.0230	.6563 .6311 .5850	.4894 .4316 .4077
	.932 86	R FLSEL	0800.	1.1190	.609			. 4458	7630	.3048 3772 2551 1300 0220		R FUSELA	.0080	1.1914	.4630
	* 11.9	1) ORBITER FUSELAGE	.0000	1.3244				- M.	9269	. 1850 . 2058 2341 1358 0861 0866 0366	= 11.924	110RBITER FUSELAGE	0000.	1.3108	
	ALPHA (5)	SECTION (X/LB	PHI .000 20.000 40.000	20.000 20.000 20.000	150.000 151.000	165.000 169.000 174.000	180.000	X/LB	90.000 105.000 105.000 110.000 135.000 185.000 185.000	ALPHA (5)	SECTION (X/LB	PH1 .000 20.000 40.000	55.000 70.000 90.000 120.000

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AMES 11-073-1
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ABULATED PRESSURE DATA
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519				.5740					
PAGE				0.4970	0570	0452	0631		
	(XE8834)			3780	1831	1973	2173		
	CXEB		,	.3010	4038	3276	3420		·
				.2510	5929	5426	5181		
	·.			.2040	1488	4538	5610	1.0460	8424. 6775.
÷	FUSELAGE			.1770	. 1321	. 1 856		1.0180	8.4. 8.4. 8.4.
TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)	MES 11-073(0A148) -140A/B/C/R ORB FUSELAGE			.1660	.6647	.7615	.7914	0666.	+.+. +.552
18 C AMES	-140A/B/		BLE CP	.1580			ŧ.	.9600	0014 0797 1753 3368 5113 2907 3950
'A - 0A14	\$(0A14B)		DEPENDENT VARIABLE CP	.1120	960.		1144	.9210	. 1955 . 1367 . 1958 . 1958 . 1958 . 1958 . 1958 . 1958 . 1958
SURE DAT	.5 11-07	4.253	DEPENDE	.0700	. 0668		.1083	.8790	. 1157 . 0968 2618 3238 4629 9531 0958
NED PRES	AME	3)		.0460	-2312	ı	.2553	.8210	
TABUL		BETA (3	AGE	.0230	.2918	٠	.2698	.7790	
		11.924	ER FUSEL	. 0080			.4129	.7290	. 2885 - 3307 - 2474 - 1047 - 1086 - 10449
8. 97.			1109911	. 0000			1.3108	.6520	.1776 .1818 2099 1122 0427 0334
DATE 10 FEB 76		ALPHA (5) .	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 140.000 150.000	165.000 169.000	180.000	X/LB	PHI -000 -

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250	5		35.000 1.100	3.1771		.574	F.10	1.046											
PAGE	AUG		m	•		.4970	1040	1497	2800	- 950	. 9 *1.	0409	0388						
	33) (05	: DATA	SPOBRK L-ELVN MACH	RN/L		.3780	- <u>189</u> -	1589	0837		1648	1917	2267						
	(XE8835)	PARAMETRIC	10.000 16.300 10.000	- 706.7		.3010	1433	2023 -		5421 5421	3283	2783 -	2304 -						
			RUDDER = BOFLAP = R-ELVN =	<u>.</u>		.2510	0885	2406	3998	2891	5160	4201	4386						
			585	599.90		.2040	0847		0172	0833		4437	5651	1.0460	1919.				
	FUSELAGE			25	,	.1770					79467	.6027		1.0180	.2916 	}		•	
11-073-	ege B			σ		. 1660	0180	0695 1594	. 1220	. 1542 . 4008	.8333	.8865	.8169	.9990			3721		
PRESSURE DATA - DAI+B (AMES 11-073-1	-140A/B/C/R			1.1012	HE CP	. 1580							n n	.9600	3160	0318 0533 0912	1507	. 9486 2023	
1 - 0A146			222	MACH -	DEPENDENT VARIABLE	.1120	. '	0530	. 0956 . 2460	. 2957 . 4938	. 5825		.5787	9210	3040	0106 0790 1247	0997	9.0. 9.0. 7.0.	ù
URE DATA	; 11-073(0A148)		800 1000 1N. 1000 1N.	-3.846 M	DEPENDE	.0700	.0055		. 2011	.3665	.5¥86		.5361	.8790	2417	. 04805 - 04805 - 0416	1047		9100.
0	AMES		1076.6900 .0000 375.0000			.0460	.0702	.0873	.3896 .3896	.6080	.6457		.6139	.8210	1469	3535	.4262	86. 80. 80.	.5986
TABULATE		₹.	9845 9845 9845	BETA (1)	JOE 10E	. 0230	.1316	. 1616	.5158 .62.59	.782 -1828	.7809		.724S	.730	0714	28825 2156 3756	.4803	2.00 0.00 0.00 0.00 0.00 0.00	4950
		REFERENCE DATA	So.r.		R FUSELA	.0000	.5497			₹ 5 8 6.			.9740	.7290	0249	. 1372	.2229	.2937	.3024
9.76		REFER	2690.0000 474.8000 936.0630 .0300	+90·+- =	(1) ORBITER FUSELAGE	0000	1.3165						1.3165	.6520	.07E1	1634	. 1545	1766	 95 95 95
DATE 10 FEB			SREF = 24 LPEF = 4 BREF = 9 SCALE =	ALPHA (1)	SECTION (X/LB	1H ^q 000.	20.000 40.000	55.000 70.000	90.000	150.000	162.000 165.000	180.000	X/LB	PH1 . 0000	90.000 90.000 00:000	110.003	135.000 156.000	180.030

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<u> </u>	ļ	3.1771	į	04/G:	0231	001¥								3.1711	į	20.	0279	24.50 24.50	
PAGE		•		9/5±.	0937	1104	0246 0260 0294	0205	0151	0149				. .		0/64.	1091	0921	0187 0096 0428
	ê	RN/L	ļ	.3780	1260	1444	1118 1081 1500	2100	2239	2272						.3788	1322	1436	11.7 2160
	(XEBB32)	706.74		3010	. 1420	1918	- 2458 - 4072 - 6204	2781	2215	2017				¥.997		.3810	1443	1917	- 3024 - 4652 - 6915
		C.		0135	. 0879	- 1930	4702 4284 3956	5103	4501	5469				•		<u>8</u>	0901	1656	5248 5034 4865
				.2040	0506	0879 1824		2327	8944	4853	1.0460	. 1004		599.90		.2040	0419	1367	
-	FUSELAGE	- 599.90		.1770	Ť				.5308 .5308		1.0180	. 1225 . 1225		*		.1770		•	
1-073-1	8	0		.1660	0126	0366	54.57 54.97 7.94 7.95 7.95 7.95 7.95	.7609	!	.8576 .8498	0666.	9	3258	0		. 1660	0165	- 9694 - 9694	
0A148 (AMES 11-073-1	-140A/B/C/R	1.1012	E CP	.1580	·	• •				.9671	.9600	4216 4216 1078 1316	2455 1418 1257 3777	1.1012	LE CP	. 1580			
- 0A148			VARIABLE	.1120		0456	. 1584 . 1584 . 2017	.5381		.5856	.9210	2930 2592 0734 1348	1914 0947 0374 0180	MACH	IT VARIABLE	.1120	3	0223	. 1037 1146 3088
PRESSURE DATA	AMES 11-073(0A148)	. 195 MACH	DEPENDENT	.0700	2010	•	1000 1000 1000 1000 1000 1000 1000 100	. 5090 15090		5448	.8790	- 2354 - 2439 - 0356 - 0207	1825 0902 .0152	.274 MA	DEPENDENT	.0700	9610	0165 .0045	
_		-		.0460			. 1968 . 2820 . 3516	.5088		6216	.8210	1640 1454 3151 3178 -2584	.5303 .5303 .5783	<i>3</i> *		.0460	.0807	.0609 .0609	1803 1803 2379 14017
TABLE ATED		(S) Y	w	.0230	ō	1904	. 5146 . 5146 . 5888	2200.		7350	.7790	0816 0821 -2558 .3069	.4178 .4933 .5096 .5098	BETA (3)	SF SF	.0230	.1313	. 1306	.3341 .4081 .4766 .5844
		S BETA	FUSELAC	.0080	e e	27.0	.7379			9670	.7290	0326 .1222 .1798	.3100 .3212		R FUSELAGE	.0080	.5312		.5917
'n	?	-4.062	1) ORBITER FUSELAGE	.0000		1.518U				3.00	.6520	.0659 .0035 .1446	7871. 5721. 8361.	-4.062	1) ORBI TER	.0000	1.3059		
977 01 3740	3	A. PHA (1) =	z	X/LB	_ {	88	55.000 70.000 90.000	120.000 140.000	151.000	169.000 174.000	X/LB	PHI .000 .000 70.000 90.000	110.000 120.000 135.000 150.000	ALPHA (1)	SECTION (X/LB	1Hq.	20.000	55.000 75.000 90.000 120.000

(XE3832)

		.5740							3.1793		57.0	0355	0301			
		.4970	0397	0357	0362						.4970	1030	1098	0461 0467	0558	0497
		.3780	2847	2573	2802				RNA		3780	0862	0813	1332	1797	2136
		.3010	2646	2299	2278				708.12		.3010	0919	1200	1405	4116	3733
		.8510	5279	5468	4198				•		20 20 20 20 20 20 20 20 20 20 20 20 20	0370	1201	-, 3833 -, 3492	6093	4910
		.2040	4676 4707	4232	5697	1.0460	.0848		599.08		.2040	9600	2.1.5	.0372	9677 3485	4895
		.1770		.+520		1.0180	. 1173		- 599		0771.					. 3689 . 3689 . 3689
		.1660	.6747	.8138	.8369	0666.	4	 	o		. 1660	.0235	0291 0291	1957 1967 1967	.8095	958-
	LE CP	.1580		1	.9158	.9600	2755 4018 1831 2609	3604 2370 2301 3765	1.0993	רב כם	. 1580					.9372
•	DEPENDENT VARIABLE	.1120	٠,4790		.5789	.9210	3042 2785 1339 2015	3038 2096 1608 0810	MACH .	DEPENDENT VARIABLE	.1120	į	0659	3.798 3.798 3.78	.5094	
4.274	DEPENDEN	.0700	4484.		.5398	.8790	2492 2620 0095 0515	2842 1694 0559	-3.863 MA	DEPENDEN	.0700	9229		25.24 25.24 26.46	.4522	
		.0460	.5627		.6172	.8210	1586 1472 .2850 .2936	.5013 .5013 .6114	, i		.0460	1561	2153	2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	. 1545.	
BETA (3)	g	. 0230	.6695		. 73 ⁴ 5	.7790	0791 0725 2211 2736 3231	.3518 .4377 .4657 .4756	BETA (1)	មួ	. 0230	355		85.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	.6767	
	R FUSELA	.0080			.9475	.7290	0258 .1215 .1729	.2317 .2836 .2985	.023 BE	R FUSELA	.0080	.6805		.8618		
= -4.062	1.0RB1TE	.0000			1.3059	.6520	.0634 .0467 .1585 .1725	.1936 .1909 .1769	0	1 1 OPPBITE	0000	1.3275				
ALPHA C 13	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 140.000 150.000	162.000 165.000 169.000	174.000 180.000	X/LB	PHI -300 -300 70.000 90.000	135.000 135.000 135.000 155.000	ALPHA (2)	SECTION (1) ORBITER FUSELAGE	x/LB	PH1 .000	40.000 10.000	20.05 00.09 00.09 00.09	140.000 150.000	151.000 162.000 165.000 169.000 174.000

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	2	TABULATED	₫.	RESSURE DATA	1 - 0A14	- 0A148 (AMES 11-073-1	11-073-	- 1				į	PAGE	2
023 BETÀ (1	_	=		AMES 11-073(0A148) -3.863		-140A/B/C/R	8	FUSELAGE			(XEBB35)	832)		
FUSELAGE				DEPENDEN	DEPENDENT VARIABLE	BLE CP								
.0080 .0230	1230		.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	3780	0.4970	5740
8519 .6090	060;		.5150	3544.	.5016		.7729		6022	5169	3023	2530	- (学38	
.7290 .7790	190		.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
. 0550 . 0197 . 0268 . 0268 . 053 . 0553 . 0553 . 0855 . 1590		, ,	0510 0504 .2722 .2799 .2831	1329 1622 .0442 .0098	2056 1811 0401 1235	2241 0743 1179		.2081	.1400					
.0216 .3953 . .4519 . .1761 .4495 . .4264 .		• • • •	.3047 .4366 .4047	1395 1042 0124 .2528	1608 0718 0076	1955 1244 1080 3832	2500 2000 3000 3000 3000 3000 3000 3000							
020 BCTA (2) *	ũ		•	.185 MA	MACH	1.0993	0	- 599	599.08	•	- 708.12	FBN/L	•	3.1793
HORBITER FUSELAGE			_	DEPENDENT	T VARIABLE	ale cp								
.0080 .0230 .040		Ö	460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0.64	5740
		7.	720	.0839	į		.0346		9900.	0359	÷060	- 0867	- 1000	
+009 1.009		: = :	1911	.0888	1080	·	0015		0723	0945	1203	0827	- 9886	.0060
10 to		ńwi	<u> </u>	2007.	2089		1030		026+	4396		-	0589	
		7.3	2000 2000 2000 2000	, <u>, , , , , , , , , , , , , , , , , , </u>	3919		. 3216 3216		1403	4671	5123 6051	#GG!	- 10.50 - 10.50 - 10.50	
.6377	•	:	210	.4210	96/4.		7357	o a	4819	5773	3785	2036	0266	
							950	5041	4977	5178	2961	241B	0221	
.8438 .5235 .:		•:	.5217	.4500	.5105	.9260	9080		5607	6156	2770	. 1059	0216	
. 02TT. 025T.		•	.8210	.8790	.9210	.9600	0656	1.0180	1.0460					
- 6200. 9140.			. 0593 . 05vë	- 1630	1915	1852		.3612 .2025	. 1328					

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AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

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BETA (2) =

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ALPHA (2) .

			3.1793		.5740	0364	.0297							
			•		. 4970	1023	. 1060	0438	0331	0407	0487			
			RN/L		.3780	0901	0962 -	2071 -			- 85.45			
			708.12		3010	- 8160	1311	2828			- 9662 -			
			a .		.2510	0425	0897		1184.1	9156	5016			
	1.0460		96		.2040	.0102 20103	- 0453	0580 0796 2204	- 4613 - 4613 6134	5048	6132	i.0460	9818. 0880.	
	1.0180		* 59.		.1770					1881 1881		1.0189	.1910	
	3 666 .	4190 3543	•		. 1660	.0265	.0272	. 0345 . 0546 . 0546	. 6568		.7950	0666.	9 9 1	4099
RE CP	.9600	1346 1578 2336 2732 1743	1.0993	ALE CP	.1593						.8735	ď.	2017 324^ 2017 3037	2933
DEPENDENT VARIABLE CP	.9210	0880 1441 2065 2281 1433 0957	MACH =	DEPENDENT VARIABLE	.1120	Š	.0597	. 1088 . 1463 . 1628	. SI 10	•	.5003	.9210	1769 1880 1582 2139	3425
DEPENDE	.8790	0460 0460 1256 1757 1010 0255	4.249 M	DEPENDE	.0700	1920.	.0642	1417	Sici F		9044.	.8790	1504 1774 0472 1132	- 2850
	.8210	. 20293 . 2034 . 2034 . 2128 . 4529 . 4570			.0460	1706	1573	. 1957 . 2509	. 5019 P. 7474		.5158	.8210	0686 0604 .2074 .1958	.3957
<u> </u>	.7790	. 1483 . 2859 . 2859 . 3438 . 387 . 4160 . 4216	BETA (3)	띯	. 0230	5473	3310	. 4313 . 4751	ייייייייייייייייייייייייייייייייייייי		.6191	DB177.	.0127 .0216 .1149 .1681	3656
R FUSEL	.7290	1389 0655 .1144 .1955		R FUSELA	.0080	.6731		.5726			.8200	.7290	.0547 0965 0138	8111.
11099118	.6520	.0555 .0555 .0772 .0940 .0956	# 024	(1) ORBITER FUSELAGE	.0000	1.3160					1.3160	.6520	. 1000 . 0951 . 0438 . 0828	.1102
SECTION (1) ORBITER FUSELAGE	K/LB	PHI 70.000 90.000 1105.000 1110.000 1320.000 150.000 155.000 165.000	LPHA 2)	SECTION (11.9	PH1 .000	40.000	25.000 70.000 90.000	140.000	151.000 162.000 165.000	174.000 180.000	7/LB	PHI . 000 70. 000 90. 000 105. 000	120.000 135.000

PACE 525						1. • 3.1705		0476. 0794.	05910414	0645 .0132	-1006	1678	0817	0652		0513					
j	32)					FN/L		.3780	0307	004E	1391		2083	2267		2461					
	(XE8835)					- 709.06		.3010	0315	0383	1304	5382	4921	4510		3549					
						a .		55.	5410.	0148	3298 - 3445	3137	6745	5993		5869					
				1.04RC		598.70		.2040	95.40°	.0109	04.00 080 1080 1080	0042	0838 3354	5497		6563	1.0460	.1658			
_	FUSELAGE			1.0180				.173					:	.501. 3158.			1.0180	.4107			
:1-073-				0686.		o		. 1660	.0912	.0841 .0943	1798 1974	.4185	. 7859		.8175	.7318	0666		Í		
B (AMES	-140A/B/C/R ORB		BLE CP	.9600	3747	1.0983	BLE CP	.1580							808		.9600	1835	0329 0699 0939	2481	
PRESSURE DATA - DAI48 (AMES 11-073-1)			DEPENDENT VARIABLE	.9210	1330	MACH .	DEPENDENT VARIABLE	.1120		. 1537 . 1534	vi Š	50.14. 50.17.	.4362			.4300	.9210	1530	0504 1617 2358	2350	
SURE DAT	AMES 11-073(0A148)	4.249	DEPENDE	.8790	. 1093	-3.863 н	DEPENDE	.0700	.1705	.2189	3368	3632	.3531			.3430	.8790	0709	0186 0517 1236	1678	
TEO PRES	AME			.8210	.4706			.0460	.2604	.319	10 m	7, C.F.	4374			.4102	.8210	.0362	1631	. 1495	
TABULATED		BETA (3)	AGE	.7790	. 3968 .4136	BETA (1	AGE	.0230	. 3823	.5714	र्ट्स हे । हे हैं है । है ।	.6375	.5614			.4823	.7790	.1310	3070 0630 . 1399	278	
		024 B	11 ORBITER FUSELAGE	.7290	.2158	3.552 BI	1) ORBITER FUSELAGE	.0080	.8209		(t S				.7155	.7290	.1695	2433	0877	
9 76		•	1.3 ORB1 TI	.6520	8211. 8211.	3.6		.0000	1.3163							1.3163	.6520	. 1633	2605	0555	
DATE 10 FEB 76		ALPHA (2)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (3)	SECTION (X/LB	PH1 .000	20.000 40.000	55.000 70.000	90.000 120.000	150.000	151.000	169.000	180.000	X/LB	PH1 .000.	70.000 90.000 105.000	120.000 120.000	

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PAGE		•		0:63.	055¥	0743	1000		- 0432	0393		0377									676¥.	0604	1918	0824 0623	936
	Ŕ	RN.		.3780	0338	0268	2053	2171	1980	2270		2374									3720	0340	0569	1 8 CC	1912
	(XEBB32)	709.06		3010	0318	0530	2129	6025	4631	3538		3326							709.05		.3010	0325	0743	2843	6463
•		•		<u>8</u>	.0190	0153	3809		6792	5733		6691							•		<u>8</u>	.0108	0263	- 4884 - 4884	4618
		598.70		.2040	. 0.48 	. 0259 8250 . 0258			5003	5535		6766	1.0460	.2743 .1429					598.70		.2040	47.	9610	0268 0268	2179
_	FUSELAGE	s 598		.1770					27.64	.4760			1.0180	.2755					296		.1770				
11-073-1		o		. 1660	1017	. 1043	1395	3408	.7068		. 7883	.7608	0666		ר מ	. 3846			o		. 1660	946	101 101	2.00 2.00 2.00 2.00 2.00 2.00	2552
PRESSURE DATA - 0A148 (AMES 11-073-1	-140A/B/C/R ORB	1.0983	LE CP	. 1580							6	n	.9600	1719	1565 1849 2953	35.71	2287		1.0983	LE CP	. 1580				
- 0A148		3	T VARIABLE	.1120	;	. 1347	. 1989 2.0% 2.0%	.3673	.4188			.4391	.9210	1144	1370 1953 2626	2819	- 1510		MACH .	IT VARIABLE	.1120		. 1018	2.00 2.00 2.00 2.00 3.00 3.00 3.00 3.00	308
URE DATA	AMES 11-073(0A148)	. 189 MACH	DEPENDENT	.0700	. 1680	. 1422	. 2393 . 2353 	.2922	.3253			.3463	.8790	0621			1363		4.243 MA	DEPENUENT	.0700	. 1607	.1208		.2145
	AMES	•		.0460	.2666	.2608 .2889	.3312 .3361	3940	5154.			.4101	.8210	.036. 0425	1449 1180 7450	.0922	4730	5003.	•		.0460	.266¥	.e377	7.55. 7.85.	317
TABULAD		BETA (2)	병	.0230	.3857	7504. 7864.	. 5396 . 5469 8500	.5601	.5313			.5032	.7790	1274	1857 .0362 .1807	.2337	68. 68. 66.	3153	BETA (3)	냋	.0230	.3769	169Z .	£374.	E.
			R FUSELA	.0080	.8225		9	}				5707.	.7290	.1626	2521	0419	6899.	.0%6		11 GRB TER FUSELAGE	.0080	.8073		į	ice:
5		3.952	1) ORBITER FUSELAGE	.0000	1.3210							1.3210	.6520	1515	0700	.0035	.0618	.0712	3.960	11099110	0000	1.3073			
DATE 10 FEB 76		ALPHA (3)	SEC: 10N !	X/LB	PH1 .000	20.000 40.000	55.000 70.000	120.000	150.000	151.903 162.903	169.000	174.000	x/LB			110.000	155.000 150.000	1 Mm. 000	ALPHA (3)	SECTION (X/LB	1 + 6	23.030 40.030	55.000 70.009	90.000 120.000

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DATE 10 FEB	8 76 57		TABULATED		PRESSURE DATA	1 - 04148		(AMES 11-073-1	<u> </u>					PAGE	527
				AMES	S 11-073(0A148)		-140A/B/C/R	928	FUSELAGE			(XEB	(XEBB35)		
ALPHA (3)		3.960 BR	BETA (3)		4.243										
SECTION (1.0RBITER	ER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	BLE CP								
X/LB	.0000	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	0155	.3010	3780	0764.	e de la constant de l
PH1 140.000 150.000 151.000			.4829	.3853	.2887	.3814		.6339	.3313	- 3824 - 5849	6392	- 2849	2162	0394	
165.900 165.900 169.900								7442	.3991	5601	6503	3499	2496	0465	
180.000	1.3073	. £829	.4985	.4065	.3352	.4305	.8357	.7551		6729	5757	3594	2528	0524	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0 566 .	1.0180	1.0460					
PHI - 000 -	. 1658 . 1729 0425	.16£" 2249 1449	. 1252 . 1382 . 1346 . 0194	.0303 .0419 .1185 .0909	0971 0994 1562 2604	0921 1475 2691 3568	1837 2465 2365 2731		.4043 .2530	. 2670 . 1161					
135.000 135.000 150.000 165.000	0570. 3760. 8480. 3770.	0014 0964 	.1810 .2839 .3105 .3131 .3133	.0078 .7775. 5815. 5735.	3020 2453 1517 .0784	3842 3050 2639 1794	4271 3408 3325 3866	200 4. 1. 1.							
ALPHA : 41	8.030		BETA (1)	н Б	-3.862 MACH	* ቼ	1.0987	ø	= 598	598.57	•	- 708.35	S RRAL	•	3.1769
SECTION (1) ORBITER	ER FUSELAGE	ige ige		DEPENDENT	T VARIABLE	RE CP								
X/LB	. 0000	. 0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	M570	OME.
PH: - 000 - 000 - 000 - 000	1.2849	.9467	.5114 .5549 .6653 .6850	.3618 .3851 .4376	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	.1685 .2435 .2893		1405 1376 1745 18		1248 1357 1458	.0702	.0329	.0383 .0685	.0071	.05% 87.00
72.000 90.000 120.000		0×17.	.6550 .6249 .5440	.4471 .4289 .3800	.323 .3209 .2796	.3026 .3161 .3555		20192 2447 1137		-0.00 -0.00	2718 3155 3328	1188 1654 5117	1271 1975 5650	2005. 2005.	
150.000			.4373	.3275	. 2432	.3628		.7677	0584.	uco-	7313	5870	2459	1086	
162.000 163.000 163.000 17.000							.8589	. 7859	•	6030	6795	5/188	2313	0829	

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BETA (1) =

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ALPHA (4) .

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	.4970	9616				•		4970	.0122	.0119	2191 1818 1458	0687	6.43	O+48		
	3780	7113.				FN/L		.3780	. 9363	- 9150.	1988 2664 3667	2125	- 3845 -	2005		
	.3010	- 0960				708.35		.3010	.0386	.0138	2059 - 2451 - 5772 -	.53TI -	4067	- 388		
	93.0	- 9249				•		.2510	.0728	.0529	. 3234 . 3769 . 3996	7395 -	6334 -	7139		
	.2040	7048	1.0460	.1735		598.57		.2040	1211	1143		- 5038	6036	7345	1.0460	.3109 .1617
	.1770		1.0180	14955.		- 598		. 1770				1214	5 674		1.0180	8684. 864.
	. 1660	.6930	0666.	Ç	. 2003 - 2003 - 2003	o		.1660	141.	1640	. 1608 1. 1855 3567	6069.	.7±05	.7242	0666.	
KE CP	.1580		.9600	1279 2367 0043 1291	1916 1916 2210 4313	1.0987	LE CP	. 1580						81.75	.3600	1214 1842
EPENDENT VARIABLE	.1120	.3633	.9210	0676 0449 0478 1142	2101 1798 1448 0534	насн -	DEPENDENT VARIABLE	.1120		. 2087	. 2111 . 2277 . 3343 . 3343	.3603		¥375.	.9210	0225 0365
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	.0460	.3155	.8210	. 0981 . 1142 . 0332 . 0893	.4983			.0460	.3700	.38+7 .748E	3384 3384 3193 3193 3193	. 3244		.2878	.8210	1018
1 86	.0230	.3585	.7790	.2630 -3928 -3928 -7782	1718 1602 1711 2202 5775	BETA (2)	Se Se	. 0230	.5192	.5339	ዾ ፚጜ ቜ	.4151		3796	.7790	.2039
R FUSELA	.0080	.5653	.7290	.2583 3242 2503	1838 0571		110RBITER FUSELAGE	. n080	.951		.6368			.5535	.7290	.2557
1.10RBITE	.0000	1.2849	.6520	.2443 .2408 0987 0673	1592 0034 05839.	8.038	11088175	. 0000	1.2905					1.2905	.6520	1445.
SECTION (1) ORBITER FUSELAGE	X/LB	PH1 180.000	X/LB		110.000 120.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 .000	20.03 0 40.000	55.000 70.000 90.000	140.000	165.000 165.000	174.000	X/LB	000 . 04 000 . 04

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	ĝ						RBVL		.3780	.0374	0063	2563 3206 2495	+.061.−	1980	. Ky.					
	(XEBB32)						708.35		.3010	.0359	. 0203	786 23 17	9	3936	<i>s</i> .					
							a.		28. 19.	.07	.020	3650- 4303 4637	7306	6693	6394					
				1.0460			598.57		.2040	.1122	2. 1. 1. 1.	. 0135 - 0783 - 1784	3149	5101	7237	1.0460	3049			
-	FUSELAGE			1.0180			* 598		.1770				}	3783		1.0183	. 4500 8000 8000			
APES 11-073-1	8			3666.	9	e m i	ø		. 1660	. 1473	1316	. 1018 . 1110 . 1321 . 2827	.6162	.7106	27.1T.	0666.		1	4431	
_	-140A/B/C/R		LE CP	.9600	1402 1586 2588	2898 2879 2798 4187	1.0987	LE CP	.1580						EF.	.9600	1469	2280 2896 3952	5145	1
- 04148			IT VARIABLE	.9210	1017 1700 2305	3305 2601 2225 1582	MACH =	IT VARIABLE	.1120		. 1399	7441. 1691. 1948.	.33+3		.3679	.9210	0238	2513 2917 3831	3992 3543 3183	
TABULATED PRESSURE DATA	AMES 11-073(0A148)	. 183	DEPENDENT	.8790	0831 1589 2539	2751 1800 1165 .0808	4.237 HJ	DEPENDENT	.0700	.2535	315. 505.15.	25. 25. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26	.1851		.2240	.8790	.0105	1550 2308 3042	- 2634 - 1965	-
ED PRESS	AMES			.8210	.0180 .0085 .0533	.3478 .3478 .5432			.0460	.3570	3236	.2861 .2351 .346 .797	2952		.3108	.8210	7927	.0307 0212 0131	0354	;
TABULAT		3ETA (2)	JOE 10E	.7790	3995 2243 .0436	.1242 .1869 .2347 .2817	BETA (3)	Ŕ	. 0230	.5031	1,950	4524. 4525. 4195. 646.	3790		.3737	.7790	2006 1.	1348 1348 1348	. 1063 . 2323 . 2882	1000
			11 ORBITER FUSELAGE	.7290	3478 2281	1160 0354 0061		11 ORBITER FUSELAGE	.0090	122		1889			.5320	.7290	1765.	3293	0806	1.00.
5		• 8.038	1 1 ORBITE	.6520	1155	0457 .0474 .0684 .0731	8.037	1) CRB [TE	.0000	69/2	!				1.2749	.6520	15.57	2. 4895 5. 4750 5. 4750	30	B/ 63.
DATE 10 FEB 76		ALPHA (4)	SECTION (X/LB	PH1 70.000 90.000 105.000	120.000 135.000 150.000 150.000 165.009	ALPHA (4)	SECTION (x/LB	PH1	20.000	25.05 00.05 00.05 00.05 00.05	140.000	151 151 165 165 165 165 165 165 165 165	180.000	X/LB	PH1 .000	40.000 70.000 90.000	110.000 120.000 135.000	150.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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ALPHA (4) .

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DEPENDE	.8790	.0081	-3.842 H	DEPENDE	.0700	. 3522	5.±. 20±. 30±.	3133	. 1885 1871	.1337		. 1455	.8790	.0218	0770 0939 1423		- 1390	
	.8210	#98#·			.0460	4696		4353		.2158		.2215	.8210	.1635	0305 0030 .0645	.1136	1. 1. 1.	.5064
AGE	.7790	.2585 .2585	BETA (1)	AGE	. 0230	.6362		.6303	14.00 14.00	.3154		.2350	.7790		4668 3892 1134	.0542	6890	. 2350
ER FUSEL	.7290	.0106		DORBITER FUSELAGE	.0080	1.0555		7706.2				¥.	.7290		2933	1957	1798	0407
1109911	.6320	.0978 4279.	= 11.975	1.10RB1TI	.0000	1.2323						1.2323	.6520	818. E74.	0720	1867	0569	.0766
SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (X/LB	H1 .000	40.000 55.000	70.000	120.000	150.000 151.000	8668 8668 8668 8668 8668 8668 8668 866	180.000	X/LB	PH1 .000 \$0.000		120.000		

<u> </u>		3.1753		.5740	91 22	3.1763		5740	1599
PAGE		•		0.4970	25.7. 25.25. 25.30. 17.40. 17.40.	•		0.€¥.	. 0990 . 0401 . 0439 . 1488
	ŝ	FRAT		.3780	. 1197 . 1983 2622 7643 1932 1832 1832	FR/L		.3780	.0509 .0509 .3286 .38611
	(XE8832)	708.59		.3010	. 1150 - 1993 - 5281 - 5863 - 5863 - 14446	708.59		.3010	.0334 .0334 .2988 .6120
		•	,	.2510	. 1365 2845 3559 4046 7801			0169.	.1342 .0504 3285 4638
		598.75		. 2040		598.75		0402.	
_	USELAGE	- 592		.1770	9+04. 		•	.1770	
AMES 11-073-1	YR ORE F	o		. 1660	8005 1516 1516 1516 1530 3568 6762 6866 8666 8666 8696 8696 8696	a		. 1660	.0071 .1859 .1729 .0800 .1121 .1417
_	-140A/B/C/R ORP FUSELAGE	1.0987	RE CP	.1580	. 3050 . 9500 . 9500 . 1542 . 1542 . 3603 . 3113 . 3113	4286	R CP	. 1580	
A - 0A148		MACH .	VT VARIABLE	.1120	. 30 25 3 1173 2	2035 MACH .	IT VARIABLE	.1120	. 1953 . 1923 . 1982 . 1469 . 1854
SURE DATA	AMES 11-073(0A148)	.168 M	DEPENDENT	.0700	.3366 .3364 .3364 .2059 .2059 .1360 .1161 .1586 .0460 .1540 .3204 .3108	. 0512 - 0512 - 054 - 054 - 054	DEPENDENT	.0700	3432 3080 .3080 .1679 .1676 .0898
TED PRESSURE	AME	₩.		.0460		. 5669		.0460	.4691 .3834 .2693 .2177 .2023
TABULATED		BETA (2)	AGE	. 0230	9148. 9530. 95787. 95787. 95787. 9578. 967. 967. 967. 967. 11303. 968. 11303. 1176. 1176. 1176.	.2392 .2349 .2349	Ä	. 0230	65086 65086 65087 65087 73657 7365 73685
		11.986 8	1) ORBITER FUSELAGE	. 0080		3	LIORBITER FUSELAGE	.0080	1.0421
9 76		•		.0000	1.2368 1.2369 .5520 .3367 .3367 .1183 .0735	.0978 .0976	1108811	.0000	1.22.1
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PH	165.000 190.000 ALPHA (5)	SECTION (X/LB	PHI 2000 20.000 40.000 70.000 90.000

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	(XE8835)			.3780	1889	1728	1919				,
	(XE			.3010	5011	4187	4360	-			
				.2510	4779	6938	6852				
	•.•			.2040	2902 5920	6504	7642	1.0460	.3337	1.641	
	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE			.1770	200	3596		1.0180	.5572	. 3763	
3 11-073	C/R ORB			. 1660	.5903	.6799	. 6849	0666.			4960 4737
18 C AMES	-140A/B/		BLE CP	. 1580			555C.	.9600	1087	1746 2071 3515	5891 4014 4077 4183
'A - 0A14	(0A14B)		DEPENDENT VARIABLE CP	.1120	. 2955		.3171	.9210	.000.	2649 2760 3870	4951 3622 3369 3013
SURE DAT	S 11-073	<u>ئ</u> غ	DEPENDE	.0700	₩680.		. 1291	.8790	. 1293	3583 5323	3805- 2765 2016
TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	AME			.0460	. 2085		.2267	.8210		1483 1328 0687	0617 -2305 -4800 -5151
TABULA		BETA (3)	AGE	. 0230	.2731		.2618	.7790	37746	4543 3458 1215	.0248 .1386 .2313 .2380
			ER FUSELAGE	.0080			.381	.7290	. 3283	4221	1094 0324 0342
8 76		11.981	1) ORB! T	.0000			1.22.1	.6520	.3203	1110	. 0966 . 1047 . 0799
DATE 10 FEB 76		ALPHA (5) =	SECTION (1) ORBITER F	X/LB	PH1 140.000 150.000 151.000	165.000 169.000	180.000	x/L8			150.000 150.000 165.000 185.000

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PAGE 533	AUG 75 3		35.000 .000 .000 .000	3.5806	•	0472. 0764.	.0051 ~.0141	.03770435	1074	. 0630	9+15				
	36) (05	C DATA	SPOBRK - L-ELVN - MACH	RN/L		.3780	0352	0853	9538 9432	•					
	(XE8836)	PARAMETRIC	10.000 16.300 10.000	= 1056.6		.3010	0715	- 1265	1206	1093	0257	1000			
			RUDDER • BOFLAP • R-ELVN •	4		.2510	1839	3991		5764	7704	2000			
	l ul		čďċ	601.33		.2040	2140	100 to 10	2293 3042	2331 1599 2743	8300	. 0367	1.0460	.0186	
-	-140A/8/C/R ORB FUSELAGE			•		.1770					.3303		1.0180	.3192 1588	
5 11-073	/C/R ORB			G		.1660	2247	.3622	0983 0675	. 1835		.7165	. 9990	ļ	2572 2572
18 C AME	-140A/B			.90163	IBLE CP	.1580						.827±	. 960c	12121 0534 1072	1856 1396 1478 3097
ra - 0a11	3(0A14B)		928	MACH	DEPENDENT VARIABLE	.1120		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	. 0594 . 0594 . 1.23	.3287	•	900	.9210	-, 1641 -, 1345 -, 0103 -, 0684 -, 1239	1913 0992 0698 0470
PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148)		1076.6800 IN. .0000 IN. 375.0000 IN.	-3.844 P	DEPENDE	.0700	178	2198		. 3310		2010	.8790	- 2924 - 3290 - 0489 - 1107	2870 1322 0997
	AM		375	11 = -		.0460	-1135	- 1119	3101	.4995 .4995		1444	.8210	- 3363 - 3370 - 1714 - 2032 - 2516	.3531 .4564 .5734 .5734
TABULATED		ATA	SPECTOR SPECTO	BETA (AGE	. 0230	0822	1495	4599 4599 6460	.6351 .6412		5,077	9677.	- 2229 - 2275 - 0668 - 1333	.3573 .3573 .3621 .3409
		REFERENCE DATA	50.FT.	-4.063	1) ORBITER FUSELAGE	. 0080	.3521		.7313			. D. C. C. C. C. C. C. C. C. C. C. C. C. C.	.7253	1906 0381	. 1400
5B 76		REFE	2690.0000 474.8000 936.0680 .0300			.0000	1.1895					1.1895	.6520	1292 2385 0320 0320	.0588 .0720 .0670 .7590
DATE 10 FEB			SREF CLRCF BREF SCALE	ALPHA (1)	SECTION (X/LB	H. 600	49.000 49.000	90.000	140.000 140.000 150.000	151.000 162.000 165.000	159.000 174.000 180.000	X/LB	PH1 - 000 - 40 .000 - 70 .000 - 90 .000 - 105 .000	120.000 135.000 156.000 180.000

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			.4970	.0072	.0892 .0720	9++0	.0446					.4970	- 0009	.0550
(9)	RN/L		.3780	0241	.0363		9589 2989				RN/L	. 3780	.0317 .	0495 0471 0138
(XE8836)	1056.6		.3010	0638 -	0490 1174 1987	0481	0171				1056.6	.3010	- 0494 -	0882 2209 2677 -
	c.	•	.2510	1849	7609 7230 6672	8280	7341				•	.2510	2017	- 7469 - 7469 - 8131
	601.33		.2040	- 2285 - 2518 - 3775	- 4538 - 4538 - 4551 - 4551	7918	8379 9436	1.0460	. 0307		.33	.2040		- 3984 - 5883 - 5885
FUSELAGE	= 601		.1770			.3119		1.0180	.3340 .1702		= 601.33	0771.	••••	•
-140A/B/C/R ORB FUSELAGE	o	•	. 1660		i 762 1701 . 0609	.5791	. 6863	0666.	3520	₹82°-	o	. 1660		- 2355 - 2567 - 0627
-140A/B/	.90163	BLE CP	.1580				.8146	.9600	0088 0417 1042 1442 1955	2660 2020 1960 2973		.1580		
11-073(0A148)	MACH	INT VARIABLE	.1120	- 2254 - 3254 - 324	0215 .0108 .2323	.3722	.4240	.9310	1796 1565 0778 1412	3140 2081 2111 1716	_	NI VAMIABLE	2192 1993	
	10年	DEPENDENT	.0700	1750 2186 1981	.0273 .0974 .2246	. 2560	3995	.8790	2448 2838 1601 2365 3976	5027 3416 2269 0216	575.	DEPENDENT	1810 2144 1946	
AMES			.0460	1027 1234 1150	. 1099 . 1841 . 3527	.4630	1774.	.8210	3361 3333 .1044 .1285	.5383 .5383	<i>+</i>	.0460	1063 1325 1412	.0007 .0561 .2298
	BETA (2	AGE	. 0230	0683 0554 0975	3467	.5874	. 5979	.7790	2239 2246 .0331 .0935	.3122 .3327 .3327 .3330	BETA (3)	. 0230		3008 3008 4209
		1) ORBITER FUSELAGE	.0080	.3566	.5835		.8342	.7290	1907 0518 .0067	.1356		. 0800 .	.3349	.4231
	1 = -4.055		.0000	1.1972			1.1972	.6520	1216 1877 . 0176 . 0448	.0623 .0759 .0739		.0000	1.1781	
	ALPHA (1)	SECTION (X/LB	PHI - 000 - 000 - 000 55: 000	70.000 90.000 120.000 140.000	150.000 151.000 162.000	169.000 174.000 180.000	X/LB	70.000 70.000 70.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (1)		PHI 20.000 40.000	70.005 90.000 120.000

DATE 10 FEB	3 6		TABULATED		PRESSURE DATA	TA - 0A148	_	AMES 11-073-1	1.					PAGE	22
				AME	AMES 11-073(0A148)	3(0A14B)	-140A/B/	-140A/B/C/R ORB FUSELAJE	FUSELAJE			CXE	(XEBB38)		
ALPHA (1) .	-4.06.		BETA (3)	p	4.27E										,,_
SECTION (1	3 OPEUTTE	110RUITER FUSELAGE	AGE		DEPENDENT	ENT VARIABLE	IBLE CP								
X/LB	.0000	. 0080	. 0230	.0460	.0700	.1120	. 1580	.1660	.1773	.2040	.8510	.3010	.3780	.4970	57.60
PH1 140.700 153.000 151.000			.5190	.4083	.2 9 48	.3077		. 4785	- 1158	8022 8760	8550	0508	0032	.020	Mark 2002 Mark
155.000 59.000 174.000							Cost	8348	ć G	8479	7513	0159	.0026	.0292	
-	.1781	.8. ¥.8	.5915	.4682	.3875	¥ 13.	60C/ ·	.6615		9363	7564	0145	.0076	.0323	
K/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	9880	1.0180	1.0460					
PH1 - 000 70.000 70.000 90.000 105.000	1273 1590 . 0090 . 0321	2014	2301 2209 0063 .0561	3199 3210 .0577 .0677	2366 2928 2809 3573	1858 1799 1650 2420	0047 0181 1339 1860		. 199. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	.011					
126.000 135.000 150.000 165.000	.0577 .0572 .0572	.1043	. 1525 . 2554 . 2819 . 3195	. 1023 . 3663 . 5311	6430 4844 3488 1277	5880 4732 4214 3466	2013 2013 2522 2849	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1							
LPHA (2) =	9		BETA (1)	rj •	-3.866 M	MACH .	.90027	0	• 600	600.16	•	1057.8	FRV/L		3.5774
SECTION (1)	1) ORBITER	R FUSELAGE	¥		DEPENDENT	NT VARIABLE	BLE CP								
. B	.0000	. 0080	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	0.4970	.5740
-	. 2068	5173		0053		1572		1642 1922	, .	1700	1815	0724	0207	. 0299	.0319
55.000 50.000				. 1976 . 1976		11 <i>7</i> 9 .0182		2185	•	2411	2941	0861	0278	9600.	.028t
90.000 120.000 140.000		. 7205	. 5755 . 5755	.3193 .3193 .3990	. 1668 . 1978 . 2851	. 1076 . 1459 . 2932		0416 0136 -2002	- • •		6439 6303 5992	0901 1230 2350	.0212 .0174 0002	.0554 .0503 .0123	
150.000			.5305	.3931	.3056	.3430		.6282		.3690	9784	2376	. 0202	.0068	
162.000 165.000 165.000 174.000							3617.	.6762	3466	9054	8550	1313	.0165	.0075	

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	
DATE 10 FEB 76	

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A STATE OF THE PARTY OF THE PAR	(958-848-3XX)	
	TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	BETA (1) = -3.866
	DATE 10 FEB 76	ALPHA (2) 042

	.5740				ê	ţ		5740	.0358	.0516						
	io				ĺ	5.37		ij	6	ë						
	.¥970	.007			•			.4970	.0326	.0203	.0429 .0383 .0251	.0168	.0200	.0183		
	.3780	.0158			ě			3780	0103	0028	90.00 50.00	. 0250	.0224	. 0238		
				•	c	D		•		-		•	ė	•		
	.3010	0875				B.7501 :		.3010	0612	0537	0881 1187 1936	141.	0551	0358		
	.8510	8538			(930	1806	70	7218 7051 6812	9431 9431	261	+83		
	οń	9			•	D		νi	-	2740	* * * * * *	Ġ.	8561	8483		•
	.8040	-1.0439	1.0460	. 0391	9	500.15		.2040	- 1636	2157	- 3703 - 4014	825 425 425 425 435 435 435 435 435 435 435 435 435 43	9134	9313	1.0460	. 0268
	0771.	1	1.0180	.3048 .2001		=		.1770					2731		.0180	3284
		80		n m					លដ	320	១ # លេ ល			6 0	-	• •
	. 1660	.5888	.9990	3385		ø		. 1660	91.	180	- 1124 - 1035 - 1035	STATE.	.6450	.6248	9880	
PLE CP	. 1580		.9600	0113 0812 0571 1067 1451 1662 1541		.90027	ALE CP	. 1580					Š	8	.9600	0504
DEPENDENT VARIABLE	.1120	.3329	.9210	- 1821 - 1464 - 1464 - 16590 - 1143 - 1840 - 1680 - 1087		MACH #	T VARIABLE	.1120	9	1128	. 0576 . 0576 . 2197	.3099		3443	.9210	1873
ENDEN	.0700	426 2.	.8790	- 2133 - 2790 - 0512 - 1116 - 2144 - 3220 - 3220 - 1850 - 1850			DEPENDENT	.0700				.2663		7162	.8790	
2	Ö	vi	œ.			. 183	DEP	Ö	0790	0743	965-	ين		Ķ	æ	2012
	.0460	.3619	.8210	- 2593 - 2593 - 1535 - 1535 - 1798 - 2316 - 2912 - 3607				.0460	8000	.0152	. 1584 . 2027 . 3080	37708		.3735	.8210	2515 2416
ы	.0230	.4605	.7790	. 1386 . 0028 . 0078 . 1142 . 1442 . 1541 . 1574 . 1874	272	(A)	×	. 0230	.080		3835 4293 4795	.4888		3574.	.7790	1423
1) ORBITER FUSELAGE	.0080	.7105	. 7290	0732 1210 1289 0153	8080	BETA	FUSELAC	.0080	14%		5724			7507.	7290	- 9690 -
TER						86	TER				•			·	•	
(1) ORBI	. 0000	1.2068	.6520			•	1100881	. 0000	1.2101					1.2101	.6520	0201
SECTION (X/LB	PH1 180.000	X/LB	PH1 . 000 70.000 70.000 90.000 105.000 135.000 150.000 150.000		ALPHA (2)	SECTION (110RBITER FUSELAGE	X/LB	H. 600.	40.000	90.000 120.000	150.000		180.030	X/LB	PH1 .009 40.000

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13							3.5774		er.	.0271	.056							
PAGE							#		1004.	.0274	.0220	.0338 .0315 .0186	. no63	.0056	6000.			
	<u> </u>						RN/L		3780	0186	7100.	.0093 0168 0116	Mi0.	9110	9110	,, ,		
	(XE8836)						• 1057.8		.3010	0769	0506	0912 1572 2126	1249	0659	0577			
							•		50.	1864	2802	7777- 7843 7848	##96°-	8648	8706			
				1.0480					.2040	1711	1869 2117	5.775. 3.785. 5.593. 4.593. 886. 8.598.	7531 9186		-1.0594	.0460	.005	
^	FUSELAGE			1.0180 1			- 600.16		0171	•	• •			+28: 	7	1.0810.1	.3134 .1866	
- 0A148 (AMES 11-073-1				0666·	7 6 7		o		.1660	1565	1671	1839 1766 1858 0209	.4558	.5913	.6110	0666		2764
(AMES	-140A/B/C/R ORB		LE CP	.9600	0880 1367 1820	2309 2065 2039	.90027	LE CP	. 1580						.7109	.9600	0055 0239 1331 1680	2397 1776 2141
- 0A148			DEPENDENT VARIABLE	.9210	1892 1790	2713 2180 2347 2256	MACH	IT VARTABLE	.1120		1453	0775 0402 0308	.2536		.3357	.9210	2010 1991 1727 2521	5100 5191 4820
PRESSURE DATA	AMES 11-073(0A148)	. 183	DEPENDEN	.8790	1742 2510 4026	4858 3752 2896 0961	4.248 M	CEPENDENT	.0700	1981	- 1260	- 0409 - 0746 - 0746 - 0896	2149		.2861	.8790	2681 2681 3066 3866 5188	6411 5333 4064
	AMES			.8210	.0955 .1316	.4037 .4037 .4528	.4671		.0460	- 0068		0487 0487 0487 8487	3251		3575	.8210	- 2490 - 2351 - 0250 - 0356 - 0356	. 3307 . 3307 . 4230
TABULATED		BETA (2)	Ä	.7790	0430 .0326 .0983	1750 1750 1757 1707	1775. '	391	.0230	50		25.25 25 25 25 25 25 25 25 25 25 25 25 25 2	.4260		3174.	.7790	1391 1255 0677 0003	. 1163 . 2127 . 2575
			REUSELA	.7290	2148	0076	7670. 38 280.	R FUSEL	.0080	F077	rene.	.¥135			.6791	.7290	0731 1969 1236	0303
8		092	110RBITER FUSELAGE	.6520	1169	. 0233	7,000.	130881	.0000	9	<u> </u>				1.1981	.6520	0269 0392 1219 0638	0247
DATE 10 FEB		ALPHA (2)	SECTION C	X/LB		110.000 120.000 135.000	180.000	· <u>8</u>	X/LB	PH	20.000 .000	25.000 25.000 20.000 20.000	140.000	151.000 162.000 165.000	17.000	X/LB	PH1 .000 .000 70.000 90.000	1:0.060 126.000 135.000 150.000

	(XE8836)					រេ		ž.	.000	.01	60	28	9	.03 Y	9.		
	IXE					1058.5		.3010	0831	0501	15.25	2025	4146	4059	2676	-	
						<u> </u>		.2510	- 123	1619	- 6575	6212 6134	9493	8101	9235		
				1.0460		599.24		.2040	- 20	1232	- 1095 - 205 - 205	2059	3518	9611	-1.0939	1.0460	. 0507
	USELAGE			1.0180		* 595		.1770					900	3063	1	1.0180	. 2563
11-073-	YR ORB F			0686.		o		.1660	0926	1101	0101	-209. 1809.	.6034	.6337	.5386	.9090	\$
TABULATED PRESSURE DATA - DAINB (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE		RE CP	.9600	2695	.89927	RE CP	.1580							.7330	0096.	0093 0935 0363 0972
A - 0A14			DEPENDENT VARIABLE	.9210	4144	MACH .	DEPENDENT VARIABLE	.1120	!	0659 0045	.0950	. 1611 -2555	.2711		.2627	.9210	- 1818 - 1717 - 0125 - 0498
SURE DAT	AMES 11-073(0A148)	4.248	DEPENDE	.8790	1910	-3.973 M	DEPENDE	.0700	.0118	0045 . 0634	1888	. 1980	.1982		198	.8790	1797 2093 0268 0837
TEO PRES	AME			.8210	.4121			.0460	.099÷	1371.	. 2079. 2069.	3261	146%		.2614 4	.8210	1794 1736 .1333 .1456
TABULA		BETA (3)	3	.7790	.2696 .2696	BETA (1)	Ę.	. 0230	.2189	.4173 8714	.5158	.524. 1965	.4159		.3387	.7790	0620 0464 0785 .0127
		120	R FUSELAGE	.7290	.0726	5	R FUSELAGE	.0090	.6658			.6861			.5718	.7290	3385
85		• •	1.10RBITE	.6520	0043	3.97	1.10RB1TE	.0000	1.1941						1.1941	.6520	. 0574 . 0366 2139 1656
DATE 10 FEB 78		ALPHA (2)	SECTION (1) ORBITE	X/LB	PHI 165.000 180.000	ALPHA (3)	SECTION (1) ORBITE	X/LB	PH1	4 60 00 00 00 00 00 00 00 00 00 00 00 00	55.000 70.000	90.000	150.000		180.000	אירם	PH1 2000 2

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, 85		3.5740		.5740	#160. 8311.					3.5740	07780	
PAGE		•		078¥.	.0713 .0590 .0133	.0018	.0103				0.64	.0650 .0443 .0027 .0087
	36)	FBN/L		.3780	.0152 .0215 0315	. 0169	.0404			FRAZL	3780	
	(XE8836)	- 1058.5		.3010	0511		2329			1058.5	0.05	
		<u>.</u>		.2510	1874	968	9348		:	•	9150	1220 2136 7237 7913
		599.24		.2040	1057 1130 1303 1574 1964	5820 5010 8739	9709	1.0460	. 0313 . 0313	Ķ.	2040	1102 1286 1421 1986 1986 1986 1557 1553 1553
_	FUSELAGE	- 596		0771.		1886	6042	1.0180	2825. 2825.	* 599.24	0771	
OA148 (AMES 11-073-1	88	σ		.1660	0882 0946 0713 0727	.5186	.6028	9880	₹8. 	•	1660	
B (APES	-140A/B/C/R	.89927	BLE CP	.1580			9 17.	.9600		.89927	LE CP	
•	11-073(0A148)	MACH .	NT VARIABLE	. 1120	. 0589 . 0290 . 0590 . 0590	. 2506	C.C.	98.0		MACH .	IT VARIABLE	0687 0417 0289 0039 .0086
PRESSURE DATA	S 11-073	. 185 M.	DEPENDENT	.0700		1796	929	.8790	- 1721 - 2120 - 1364 - 1364 - 3171 - 1350	4.242 M	DEPENDENT	
	AMES			.0460	. 1071 . 1071 . 1315 . 1315 . 1851	. 1775.	862. 862.	.8210		j I	.0460	2501. 2700. 2780. 2780. 1770. 1770. 1689
TABULATED		BETA (2)	J GE	.0230	. 2533 . 2381 . 3437 . 3910 . 3981	.4155	.3610	.7790		BETA (3)	. 0230	.2087 -2014 -255 -255 -2803 -2803 -2803 -2803
		3.981 8	1) ORBITER FUSELAGE	.0080	.5381		9630	.7290			110981TER FUSELAGE	.3827
56		W.	1.1088171	.0000	1.2010		1.2010	.6520	.0603 .0490 .0490 .1723 .1723 .1193 .1936 .1936	3.986	1.0981TE	1. 1863
DATE 10 FEB 76		ALPHA (3)	SECTION (X/LB	PHI . 000 . 000 . 000 . 000 . 000 . 000 . 000	170.000 170.000 150.000 151.000	152.000 165.000 169.000 174.000 100.000	X/LB	741 70.000 70.000 105.000 110.000 135.000 165.000	ALPHA (3)	SECTION (20.000 20.000 20.000 25.000 70.000 16.000

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DATE 10 F	FEB 76		TABULATED		SSURE DA	TA - 0A1	PRESSURE DATA - DAI48 (AMES 11-073-1	111-073-						1040	
				AM.	MES 11-07:	11-073(0A148)	-140A/B/C/R	C/R ORB	FUSEL AGE	۵۰۰			1050000		ŝ
ALPIA 1 3	3 - 3	3.966	BETA (3	3 • (8	4.242			•							
SECTION	(1) CARBITER	TER FUSELAGE	AGE		DEPEND	DEPENDENT VARIABLE	ABLE CP								
X/LB	.0000	.0080	. re30	.0460	.0700	.1120	. 1580	.1660	0771	0406	0130	9.65	1	Š	į
PHI 140.600 150.000 151.000			.3307	. 2393	.1387	.2064		10E 7.			-1.0319	•	. 57 mg.	9,60	ot c
165.000 169.000 17-000					·		Š	.5544	. 1526	9840	8533	2026	.0327	.0023	
180.000	1.1863	.5379	.3503	.2421	.1876	.2640	9000	.5657	•	-1.1040	9521	2357	.0393	בי ומוכם	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666	1.0190	1.0460				3	
PH1 -000 70.000 90.000	.0599 .0604 2308 1690		0590 0472 1496 0690	1649 1541 0051 0099	1708 2319 2852 4050	2003 1930 1230 1873	0038 0253 1097 1577		. 3625	. 1203					
120.000 135.000 150.000 165.000	0972 0564 0536 0687	1314 0243 .0012		. 0839 . 3080 . 4 165	6286 54 19 4465 7433	48:2 5351 5230 4704	2495 2090 1888	3119 2615							
2	9.0	8.050 BE	BETA (1)	•	3.862 M	MACH	0.668.	•	. 599	287.85		1059.7	FN/L	•	3.5781
SECTION 6		LIONERITER FUSELAGE	걸		DEPENDENT	NT VARIABLE	PLE CP								
X/LB	.0000	. 0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	500	.3010	3780	0289	S. Park
PHI .000 .20.000	1.1569	.8036	3632	.2213 .2398	.11211	.0365	* 1	\$610 8010	•	0279	0513	0188	6440	1.188	is:
55.000			55.4. 55.4.	. 155. 175.	. 2855.	1001 1431		.0.65 885	•	-	0635	.0139	.0673	.1165	.1908
90.000 120.000 140.000		.6333	. 4029 . 4029	. 2010 . 2010 . 2010	1871	. 1530 . 1617 . 1976		.0337 .0481 .2039	• • •	1616 2502	4820 5975 6470	1827 2349 5032	0786	.0182 0182 1532	
150.000 151.000			% %	.1913	.096 0 ·	. 2002		.5787		4763	6362	4455 -	1292	0358	
165.000 169.000 174.000							96899	.59+0	.2697	-1.0244	57.49.	+907	- 0711	0179	

57.0 5.6 .1571 . i 865 3.5781 -.0126 -.0182 -.0559 -.0142 66ª. .00+0 0.63 .1275 .1.05 .0050 .0079 -.0924 -.0893 -.1138 3780 6229 -. 1243 . 9488 .0265 -. GF0 9229 (XEBB38) 1058.7 .3010 -.0463 -.2317 -.3654 -.3325 .3010 -.0137 -.4676 -.4582 -.4553 -. 3×87 -.6606 -.5798 -.6833 -.7106 500 Š -.0504 -. 1004 -.6342 -. 6482 -.6538 -.9280 -.0287 -.0450 -.0549 -.1499 -.2487 -.3560 -.4377 .2040 1.0460 .1336 2040 -1.1322 1.0460 . 1309 -1.0334 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .1770 .3988 .2676 1.0180 170 . 2388 . 2388 1.0180 .3957 - 0A148 (AMES 11-073-1 . 1660 .9990 .4897 .1660 5009 4.4.1 9990 .5328 -. 3281 -. 261 0 -.0034 -.0909 -.0639 -.1276 -.1824 -.2047 -.2153 -.2915 .1580 .9600 . 1580 -. 0594 -. 0594 tura; DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -. 1862 -. 1765 -. 0410 -. 1076 -.2164 -.1886 -.1805 .1120 -.1837 .1120 1990 .9210 .0383 .0728 .0663 .0778 .0903 .2142 .9210 .1935 ACH TABULATED PRESSURE DATA -.1382 -.1898 -.0722 -.1128 -.3143 -.3182 -.2781 -.0519 -.1313 .0700 . 09te .0700 .8790 1266 1083 1415 1346 0970 0934 9:1: .8790 395 -3.862 -.0970 -.0843 .0994 .0775 . 2024 . 2024 . 2635 -.0877 -.0738 .1578 .8210 .1605 .0460 5785. .2311 .2260 .2472 .2343 .1992 .1916 .8210 .0460 .1879 .0230 .2115 .0755 0425 .7790 . 0230 3703 3899 4469 4330 4000 3368 3368 2713 2357 .179 BETA 語 (中) CRBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.5694 -.4827 .0080 .4130 .0965 -.2371 .0080 .7290 **₩** -.1069 **918**. +057 .7290 . 1053 .071 8.050 9.0g. .1449 -.1466 -.1302 -.1170 ..1559 .0000 .6520 .0000 1.1639 1500 -. 3094 1.1639 55.20 ALPHA (4) 40.000 90.000 90.000 105.000 110.000 125.000 155.000 155.000 165.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.00000 20.00000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20.00000 2 000 .1 .000 **.0**.000 X/LB X/LB X/LB

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BETA (2) =

A.P.M (4) = 8.054

(XE8835)

			3.5781		.5740	.1505	.1705							
			•		.4970	.1323	.089v	0385 0326 0241	6400.	. 0056	0024			
			PRA/L		.3780	.0431	.0189	1105 0729 0811	0517	0566	0611			
			1058.7		.3010	0276	1147	2330 1862 2573	4118	1644°-	4403			
			•		50.	0616	1487	6490 2430 2330	6521	6897	6864			
	1.0460		26.662		.c0+0	0354	0865 0865	8000 6000 6000 6000 6000 6000 6000 6000	6398 -1.0124	-1.0402	-1.0864	1.0460	.0090	
	1.0180		- 599		.1770				•	1751.	•	1.0180	. 3967 . 2270	
	ე666.	3280 2346 -	O		. 1660	0118	0312	0983 0983 0918	515.	.5140	.5217	0666.		2516 2516
KE CP	.9600	1069 1440 2008 2358 2358	.89970	AE CP	. 1580							.9600	0421 1435 1841 1841	2467 2534
DEPENDENT VARIABLE	.9210	1043 1557 2060 2556 2899 2859	MACH .	DEPENDENT VARIABLE	.1120			0118 .0099 .0269	. 1539		.1970	.9210	2255 2135 1881 3917	5402 4452 4807
DEPENDEN	.8790	1684 3500 4500 4501 3501 1625	4.239 M	DEPENDEN	.0700	. 1088	.0734		.0533		+160.	.8790	1387 1970 2568 3451 4551	5600 4478 4161
	.8210	.0293 .0234 .0234 .0803 .3050 .3977	٠		.0460	.2206	.1934	2080. 1990. 1990.	1499		. 1416	.8210	0859 0812 0388 0533	.0077 .2556 .3608
M	.7790	-1788 -1008 -0069 -0184 -0884 -1121 -1253	BETA (3)	GE	. 0230	.3566	. 3380 . 3403	<u>ស្ពួស់</u> សម្រើស សម្រួល	.2283		. 2269	.7790	.0357 .0402 2160 1598	0481 1450. 09560.
110RBITER FUSELAGE	. 7290	6283 4721 2414 1246		R FUSELA	.0080	.7943		3276			.3737	.7290	. 5831 5831	2265
11098116	.6520	2122 2501 2125 1319 1159	. 8.051	(1) ORBITER FUSELAGE	.0000	1.1482					1.1482	.6520	. 1458 3172 2489	1637
SECTION (X/LB	74. 20.000 110.000 130.000 150	ALPHA (4)	SECTION (X/LB	000°.	20.000 40.000	25.000 20.000 20.000 20.000	140.000		174.000 180.000	X/L8	PH1 70.030 90.030 90.030	119.630 170.033 137.003

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PAGE 543					- 3.5829		0472. 0784.	.1841 .2167	.1824 .2500	0349	2603 2603	0941	. Or Or	010+			
	(XEL-836)				Par.		.3780	.0987	.1173		1/16	2222 -	2213 -	2119 -			
	T				1059.2		.3010	.05 44	.0674	2013	5316	5179	5554	5577			
					a		0185	. 0300	.0158		5430 6580	5692	5817	6144			
			1.0460		600.28		.2040	.0500	.056	0602	2501	5245	8524	7122	1.0460	.0318	
_	FUSELAGE		1.0180		• 60		0771.					002.0	504 504		1.0180	7554. 0775.	
11-073-	88		0666·		σ		. 1660	0.00	1147	.0516	1879	.5611	.5620	.4535	0666.	1. 1. 1.	£ 6.00
RESSURE DATA - DAIY8 (AMES 11-073-1	-140A/B/C/R	BLE CP	.9600	2561	77668.	BLE CP	.1580							.65%	.9600	0115 0917 1393 1808 2259	2592 2523 2649 3077
A - 0A14		ess DEPENDENT VARIABLE	.9210	#17ª	MACH .	DEPENCENT VARIABLE	.1120	Š	1973	1502	BK+1.	. 1420		.1455	.9210	1838 1809 1810 2304	3569 2641 2714 2108
SURE DAT	AMES 11-073(0A148)	T.E.SS DEPENDE	.8790	2301	-3.854 M	DEPENCE	.0700	2239 3000	. 2841 1487	1890	. 0598	.0149		.0182	.8790	0872 17%6 2573 2596	3598 3593 3336 1203
a .	(•	.8210	.3153			.0460	.3374	.4008 .4008	. 3053	141.	. 0892		.0643	.8210	0260 0118 0004 .0461	. 1965 . 1965 . 2842 . 3290
TABULATED	12.	• •	.7790	. 10367 . 1032	BETA (1)	Se Se	. 0230	. 4975 5460	6193	4929	. 2990	.1673		.0959	.7790	. 1186 - 1155 - 0493 - 0551	.0054 .0159 .0181 .0181
		R FUSEL/	. 7290	0874	.931 8€	110RBITER FUSELAGE	.0080	4426.			e E			£7 £ 5.	.7290	. 1717 5755	2356 2258 1356
87 B	0	1.088	.6520	1078	=		. 0000	1.0981						1.0981	.5520	. 2883 - 3845 - 3844	37%3 2507 26%6 1626
DATE 10 FEB	3	• 8	X/LB	PM1 165.000 180.000	ALPHA (5)	SECTION (X/LB		£0.000	5.05 8.08 8.08	120.000	150.000		130.000	X/LB	PM1 40.000 76.000 995.600	185.060 150.060 150.060 165.060

##G		3.5829		.5740	.2231	. 247B								3.5829		.5740	3115.	
PAGE		•		.4970	. 1943	.1600	0826 0764 1369	0432	007	.0133				•		. 1970	.1859	- 1276 - 1290 - 0689
	9	RN/L		.3780	.1067	.0976	. 1862 . 1893 . 2955	. 1867	. 1836	1860				FBV/L		.3780	.	9494 11976 1876 18753
	(XE8818)	1059.2		.3010	.0572	6100.	. 2599 . 2550 . 4217	•	5157 -	5256 -				1059.2		.3010	1689.	
		•		.2510	.0375	.0420	5169 - 6422 -	•	. 6259	6369 -				•			.0273	1097 5863 7204 6917
		95 9		.2040	.05±2	0132			- 2486.	- 6557.	.0460	.1412		28 82	,	.2040	_	
_	FUSELAGE	= 600.28		.1770					. 1656 . 1828		1 0810.	. 4225 . 2623		- 600.28		0771.		• • • • •
AMES 11-073-1	88	ø		. 1660	96.0.	.0746	0258 0164 0034		.5161	.4889	. 9990		. e709	•		. 1660	.0712	. 0565 . 0818 . 0565 . 0818
(AMES 1	-140A/B/C/R	.89977	E CP	.1580						.6082	.9600	0224 0858 1787 1814	2157 2496 2635 2770	.89977	E CP	.1580		•••
- 0A14B			VARIABLE	.1120	!	.1253	.0572 .07716 .0777			.1616	.9210	2008 2239 2289 3797	4964 4134 324 324	Ħ	VARIABLE	.1120	.0963	.0376 .0376 .0030 .0190
RE DATA	11-073(04148)	. 188 M:CH	DEPENDENT	.0700				.063		. ወ2ጥ	.8790	1648 3108 340; 340;	4507 - 4200 - 3823 -	.259 MACH	DEPENDENT	.0700	.2132 .1818	. 00278 . 00278 . 0085
TABULATED PRESSURE	AMES	-:	۵	.0450	.3480	.3387 .3340	. 1891 1531 1531	0880		.0833	.9210	0182 0828 0439	. 3384 . 3384	4.6	۵	.0460		2442 1197 0734 0607
TABULATE		(S) Y	W	. 0230			.3700 .3237			.1147	.7790	. 1028 . 1165 . 1185 . 1120	.0032 .0204 .0351 .0766	(3)	W	. 0230	8000 A.	
	•	5 BETA	FUSELAGE	.0080	.9338		1554.			.2463	.7290	5922	- 17 15. 5175.	5 BETA	FUSELAGE	.0090	.9155	.2600
3 6		11.945	1) ORBITEF	.0000	1.1057					1.1057	.6520	.2288 .2396 4632 -	.2051 - .1574 -	11.935	1309BITER	.00.30	3.60.1	
DATE 10 FEB 76		ALPHA (5) =	SECTION ()	X/LB		20.000 40.000	55.000 70.000 90.000	150.000	151.000 162.000 165.000 169.000		x/L8		135.000 135.000 155.000 190.000 190.000	ALPHA (5) =	SECTION ()	X/LB		40.000 55.000 75.000 90.000

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PAGE			•	DES.	0056	.0128	0141			
	9			3.780	1838	1970	2493			
	(XE8836)		,	3010	512+	5249	5322		,	
				55.	5865	6129	6054			
				.2040	6051 9718	9873	6926	1.0460	. 1382	
_	'USELAGE			1770	.0710	.1049		1.0189	. 2458 . 2456	
11-073-1	YR ORB F			.1660	.3930	LRPO	1.64	0656.		- 3221 - 2528
3 (AMES	-140A/B/(RE CP	.1580			.582·	.9600	0472 1092 3490 3490	6558 5598 3729
1 - 0A14E	. (84140)		DEPENDENT VARIABLE CP	.1120	.1250		.1472	.9210	2356 2701 4454 5610	
SURE DAT	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	4.259	DEPENDE	.0700	0121		.0113	.8790	0826 1707 3939 4458	
ABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	AME			. 0463	.0739		. 0644	.8210	0184 0089 1080	25.00. 25.00. 71.42. 07.54.
TABULA		BETA (3)	AGE	.0230	. 1236		.1128	.7790		0301 0301 .0413 .0834 .0791
			ER FUSEL	.0080			.219t	.7290	5926	2890
9 76		- 11.935	1109911	.0000			1.0915	.6520	. 2252 . 2263 . 4336 3369	2146 1478 1330 1622
DATE 10 FEB 76		A.PHA (5) -	SECTION (1) OHBITER FUSELAGE	X/LB	PH1 140.000 :50.000	151.000 162.000 165.000	169.000 174.030	X/LB	PH1 .000 70.000 70.000	105.000 120.000 135.000 155.000 165.000

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PAGE 546	(XE8837) (05 AUG 75)	PARAMETRIC DATA	* 10.000 SPOBFAK * 35.000 * 16.30° L-ELYN * .000 * 10.000 MACH * .600	= 2385.8 RN/L = 4.8726		0473. 0784. 0875. 0105. 01	35 0975 0742 0574 0698	711935165314111395	.0012 .0585	130387 .0389 .0862 221672 .0028 .0358	33 0991 0377 0084		17125005860200	20132807400444			
			RUDDER BOFLAP R-ELVN	595.14 P		.2040 .2510	15101285	£00£ 3330 2671		17891613 14281822	1953 3569 3123		94572387	-1.18152320	1.0460	.0112 0165	
÷	FUSEL AGE			. 59		0771.					i	25.59 25.59			1.0180	. 1540 . 1540	
TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	-140A/B/C/R ORB FUSELAGE			o		.1660	1825	3698		0097 .1915	.5634		.5715	.3625	0666.		3028 2293
18 (AMES	-140A/B/			.59694	BLE CP	. 1580							9009	9600	.9600	0216 0943 0663 1202	1542 1424 1193 2705
TA - 0A14	\$(0414B)		922	MACH .	INT VARIABLE	. 1120		3102	.0813	. 1375	.3463			.2876	.9210	1301 1148 .0216 0413	1120 0604 0414 0075
SSURE DAT	AMES 11-073(0A148)		776.6800 IN. .0000 IN. 575.0000 IN.	-7.848 H	DEPENDENT	.0700	2255	. 2999 1100	151.	. 3502	. 3464			.e775	.8790	- 1431 - 1818 - 0424 - 0022	1331 0912 0779 .1670
ATED PRES	AME		1076			. 6:+60	2162	2276	. 2357	.3360	.4308			.3457	.8210	- 1884 - 2115 - 1832 - 2294 - 3391	.5097 .4759 .3254 .2864
TABUL		NTA .	XYMRP YMRP ZMRP	BETA (1)	AGE	.0230	2172	. 0251	. 151.	. 5508 . 6226	.5710			.4410	.7790	- 1461 - 1691 0758 1295	.2859 .2859 .2652 .2151
		REFERENCE DATA	SD. FT.	4.041	1) ORBITER FUSELAGE	.0080	. 1328			. 7.60				.7101	.7290	1189 0008 .0447	.0810
EB 76		REFI	2690.0000 474.8000 936.0680 .0300		1108811	. 0000	1.0099							1.0099	.6520	1044 1973 .0170	0013
DATE 10 FEB			SREF ILREF SCALE	ALPHA (1)	SECTION	X/LB	. 000 . 000	40.000 57.000	70.000	90.000 120.000	150.000	162.000	169.000	180.000	X/LB	PH1 - 000 - 000 70 . 000 90 . 000	110.000 120.000 135.000 150.000 165.000

4		4.8726	646.8		0578	1053							•		4.8728	Ē		9.	9		
PAGE		•			0447	.1007	.059+ .0347	.0134	.0103	0039								0356	0647	9.40. 9.40. 9.40.	
	3	AN /		.5780	. 0586	. 1138	.0338 .0097	0220	. 1620	- 00+00-					HAV.L	5	99/c.	0519	0687	0038 0129	
	(XE8837)	2385.8		3010	0787	1371	0397 0802 1969	0922	1047	1014					2385.8		3010	8746	- 0909	073 1079	-, 6 466
		•	1	<u>g</u>	1125	2046	1812 2184 2343	2767	2137	1399					Q			1039	1547	2630 2630	6808
				.2040	1387	2687	- 1927 - 1927 - 2715 - 2416	2703	9273	-1.1496	1.0460	.0192			595.14	;	040 040	1325	1.0160	3579	5459
•	ORB FUSELAGE	- 595.14		.173				1526	. 1946	•	1.0180	.2504		*** ·	# 20 4		170				
AMES 11-073-1	/R ORB FI	o		. 1660	1649	2051 3002	1817 1098 1020 0814	.5017	:	.4618	.9990		3088	2437	o		. 1669	1550		174	0489
~	-140A/B/C/R	.5969	LE CP	. 1580						6969.	.9600	0297 085±	1375	2086 1772 1451 2602	.59694	BLE CP	. 1580				
- 0A148		• 5	T VARIABLE	.1120		2419	- 1522 .0022 .0398	.3256		.32i4	.9210	1356	0821	1834 1132 0333 0883	*	NT VARIABLE	.1120		2219	1578 0580 0550	1410
PRESSURE DATA	11-073(0A14B)	-3.846 MACH	DEPENDENT	.0700	2089	24:81 2625	0685 .0591 .1216	. 3 281		.3080	.8790	- 1449	0636 1636	2177 1575 1167	. 19t	DEPENDENT	.0700	2018	22.94 22.94	1063 0277 0088	1450
	AMES			.0460		1933	1319 2182			.3831	.8210	1934	. 1596 . 2300	.3617 .4385 .4076			.0460	1767	ii	0586 .0357	•
TABULATED		BETA (2)	GE	.0230	4181	1736	.3351 .3351	. 5399		0774.	.7790	1578	. 0380 . 0881 . 1358	22.0 22.5 22.5 72.5 88.5	BETA (3)	AGE	.0237	1809	1608	. 1230 . 2226 . 1202	
			R FUSELA	.0080	1881	3	.6021			.7258	.7290	1143	+850 -0146	.1056	-3.896 B	1104BITER FUSELAGE	.0080	. 1806		35.44	
76	ı	-4.025	11 ORBITER FUSELAGE	0000	1020					1.0501	.6520	1701	0145 .0198	. 0299 . 0449 . 0378			0000.	1.0592			
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ALPHA (1) =

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X/LB .	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	5740	
PH1 140.000 150.000 151.000			.4822	.3721	.2724	.2764		¥04.	.0327	3549 4861	28.	0949	0283	1010.		
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-	.0592	7617.	.4871	4004 .	3146	.3292	18/9	.5069	•	-1.1392	1892	0893	0250	.0106		
X/LB .	.6521	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460						
	0978141503700029	1105 0668 0159	1410 1529 0020 .0484	1892 1989 .0786 .0965	1471 1855 0585 1259	1419 1218 0576 1205	0302 0681 1135 1593			.0244						
869.99 869.99 869.99	.0137 .0430 .9430		. 1581 . 2397 . 2535 . 2464	. 2305 . 4449 . 4668			2623 2170 1820	3196 2653								
180.000	. 0349 -3.930	101	6 . 2466 BETA (4)	. 4693	- 5		.59694	o	# 595.14		•	2 797.0	Š		y S	
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#	.0378	. 1554 . 2826	. 1841 - 1871 - 1751 - 1028 - 1746 - 1746 - 4006	. 1805 - 1817 - 1875 - 1875 - 1875 - 0303 - 1378 - 3105	. 2132 2217 1578 1578 1971 136	. 2025 - 2042 - 1370 - 1370 - 1520 - 2016	90.00	- 1586 - 1697 - 2053 - 2264 - 2778 - 1925 - 1925 - 1925	. 1078 የሚያ	1.1393 1.1452 1.1452 1.1453 1.				•	0598 0487	

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DATE 10 FEB	EB 76		TABULATED		PRESSURE DATA	A - 0A148 (AMES 11-073-1	_	٠				PAGE	25
				APE.	AMES 11-073(0A148)		-1404/8/(-140A/B/C/R ORB FUSELAGE	USELAGE			(XE	(XEBB37)		
ALPHA (1)	•	-3.930	BETA : +	* • •	4.266										
SECTION	1100011	DORBITER FUSELAGE	LAGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.0000	. 0080	. 0230	.0460	.0700	.1120	. 1580	.1660	.1770	0408.	.8310	.3010	.3780	.*970	.5740
PH1 180.000	1.0378	.6876	. 483 6	.3789	.3072	.3198		₩.	•	-1.1330	2012	1014	0366	00%	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0480					
PHI 	0920 1263 0494 0154	1121	9141 9141 9043 9060.	1912 1903 .0380 .0332	1508 1.1891 1.0964 1.1686	- 1415 - 1203 - 0828 - 1567	0353 0614 1273 1788	\$ 0 0	. 1300 . 1300	.0060 0612					
88888	0195 0159 0199 0199	0154 .0605 .0865		. 1034 . 3121 . 4696 . 4459	4458 3524 2828 1420	- 3568 - 359 - 359 - 359 - 359	- 3267 - 2588 - 2586 - 2576 - 2576								
ALPHA (1)	3.	-3.946 8	BETA (5)		8.339 HJ	MACH .	.5969+	o	•	595.14	•	- 2365.8	B RN/L	•	4.87ZB
SECTION ((1) ORBIT	1) ORBITER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	PLE CP								
X/LB	. 0000	.0080	.0230	.0460	.0700	. 130	. 1580	.1660	.1770	.2040	989.	.3010	.3780	0.64	.57%
7. S. S. S. S. S. S. S. S. S. S. S. S. S.	.9887	.1295	2008	. 1388	2361	2073		1799		996	1278	0961	0683	0586	0747
999			989	2170	2248	1919		1922		25.23	1147	0546	0328	0638	83
888		.0556	0038 .0470 .1506	- 1491	1902 1938 1141	- 1941 - 2279 - 1025		2731 3416 3353		1.198 1.198 1.198 1.198 1.198	- 3218 - 3218 - 347	0948 1375	0203 0317 1223		
388			.2891	.2196	9011.	9001.		. 1479	2589	5137 6336	2 676	1507	1039	0700	
55.85 8.86 8.86 8.86 8.86 8.86 8.86 8.86							į	.3637	1.1763	9988	2423	1493	6680	0588	
88	.9867	.6195	.4300	.3228	ES.	.2716	1640	.3875	•	-1.1408	2359	1422	0830	9515	
X/LB	.6320	.7290	.7790	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
PHI . 900 . 900	 565	1206	- 1495 - 1381	1967 1859	1552 1857	1944 1842	0373			.0023					
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DATE 10 FEB	EB 76		TABULATED		PRESSURE DATA		OA148 (AMES 11-073-1	11-073-1	-					PAGE	98
				AE	AMES 11-073(0A148)	(04148)	-140A/B/C/R ORB FUSELAGE	./R ORB F	USELAGE			(XEBB37)	£		
ALPHA C 13	•	-3.946 8	BETA (S)		8.339										
SECTION	(1) ORBITER	ER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.6520	.7290	.7790	.6210	.8790	.9210	.9600	0886	1.0190	1.0460					
70.000 103.000	0559	1251	0811 0570 0099	0002 0123	1370 2094 3516	1076 1793 2508	1377 1894 2457	i F							
25.000 25.000 25.000 26.000 26.000 26.000	0515 0430 0378 0342	0711 0158 .0278	0269 .0697 .1027 .1263	1080 .1532 .4288 .3823	4878 4878 4368 2678	- 4343 - 3411 - 3560 - 3530	3768 3146 2764 2657	2000							
ALPHA (2)	•	.030	BETA (1)	11	-7.898 M	MACH .	. 59652	o	188	594.31	•	2385.8	FBV.L	•	4.8794
SECTION	(1) ORBITER	ER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	170	.2040	.8310	.3010	.3780	£976	.57%
£ .	1.0318	319	0730	1153	1388			1381			1053	- 62/0	£ 8.	0187	0212
200 200 200 200 200 200 200 200 200 200			- 2027 - 2023 - 2023	B.F.	12 N	1880 1680		2000 		2002	1479	0973	0765	0623	0513
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150.000			1	319	.2435	.2614		.5150	Š	tec3 4623	3983	- 1580 -	- 0850 -	0860	
162.000 162.000 165.000								.5096	1321	1.1197	29%	1675	. 0160.	0676	
174.000	1.0318	2806	.3175	.2431	. 1829	.2039	Š	.2948	•	-1.3516	2668	1627	- 6960	071%	
X/LB	.6520	.7290	.7790	.6210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 - 000 -	\$650°-	0789 0789	1044 1148 . 0340 . 0898	1599 1775 . 1763 . 3446	1296 1673 0392 0012	1223 0931 0406 0475	0201 0861 0637 1243	g E	. 1832						
2000 2000 2000 2000 2000 2000 2000 200	9810	.0005 .059	. 1913 . 2327 . 2715.	.5024 .4270 .2381	1540 1464 1568	1200 0974 0758	1433 1677 1364	5365							

PAGE 951						RN/L - 4.8784		3780 .4870 .5740	030900670122	040803580222		0148 .0188 05129237	564 0293	5830260	6000271			
	(XEBB37)					- 2385.8		.3010	0573	0616	057		1350058v	13430583	1286 4600			
						•		.2510	0858	1136	1790		W.70	2601	2408			
				1.0460		594.31		.2040	1043	. 1680	1617		5007	-1.0907	-1.3122	1.0460	 9.0.	
1)	FUSELAGE			1.0180		8		.1770					300		•	1.0180	.2556 .1734	
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4 - 0A14	(0A148)		DEPENDENT VARIABLE	.9210	0330	MACH .	DEPENDENT VARIABLE	.1120	: 1684	1 A C	. 0803 803	.2152 .2152	.2500		.2382	.9210	1227 0981 0113 1365	1750 1351 1242 1167
TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	AMES 11-073(0A148)	-7.898	DEPENDE	.8790	弘.	-3.863 HJ	DEPENDEN	.0700		120			.2317		.2146	.8790	1243 1666 0102 0664 1538	1972 1972 1771 0275
TED PRES	AFE.			.6210	. 240B			. 0460	0858	0386	1876	3150	.3067		.2833	.8210	1577 1641 .1220 .1564 .2408	.3684 .3881 .3070
TABLEA		BETA (1)	30	.1790	.1701	BETA (2)	39	. 0230	0321 0058	1717	3878	.4677	.4307		.3531	.7790	1003 1100 0108 .0493	. 1951 . 2474 . 2444 . 2068 . 1893
		.030	11 ORBITER FUSELAGE	.7290	0031	.0±0	IR FUSEL	. 0080	.3529		9				3855	.7290	0636 1173 0556	.0130 .0610 .0485
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: 0A148			VARTABLE	.1120		1219	.0742	0173	.2084			.2453	.9210	- 1245 - 1037 - 0385 - 1240	- 2424 - 1880 - 1869 - 1996		T VARIABLE	.1120	1412	1.0924 1038	.0293
RE DATA	ES 11-073(0A148)	. 181 MACH	DEPENDENT	.0700	1167			. 0330				5715.	.8790	1302 1665 0640 1357	3123 2667 2301 0772	4.244 MACH	DEPENDENT	.0700			
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- 04148 (AMES 11-073-1 A148) -140A/8/C/R 088 F			.1660	.2600	.4035	4224·	0666.			ø		.1660	1419	- 1507	- E. S. S. S. S. S. S. S. S. S. S. S. S. S.		. 3 88
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5	•	13 OFB1 TE	. 0000			1.0620	.6520	0391 0519 1512 1000	052 0143 0126	0.	1) ORBITER	0000	1.0087				
DATE 10 FEB 76	ALPHA (2)	SECTION (X/LB	PHI 140.000 150.000 151.000	162.000 163.000	180.000	X/LB	PHI 40.000 20.000 20.000		ALPHA (2)	SEC710N (X/LB	PH!	5.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	00.00 00.00 00.00	150.000	151 165 165 169 169 169 169 169 169 169 169 169 169

RESSURE DATA - OAIWB (AMES 11-073-1 AMES 11-073(OAIWB) -, _A/B/C/R ORB FI
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	••			1.0460				583.73		.2040	0506			4008	-1.8555	-1.4630	1.0460	.0200	
<u>-</u>	FUSELAGE			1.0180				8		.1770				8690	0375	•	1.0180	.280 9 .1922	
11-073-				0666.		. 07.47.		ø		. 1660	0714		- 0479 - 0460 1780	.4180	.4398	3245	0666.		2407 2407
- 0A148 (AMES 11-073-1	-1404/B/C/R ORB		BLE CP	.9600	0483 1202 1658	1553	1601 2679	.59620	BLE CP	.1580						7	.9600	0080 0574 1369 1886	1847 2061 1820
	(0A14B)		DEPENDENT VARIABLE	.9210	.0386 0378 0821	1412	1096 0506	- HACH	NT VARIABLE	.1120	9	10 S	0780 0901 7271	.1746		. 1618	.9210	1084 0743 0009 0842	1848 1618 1567
PRESSURE DATA	AMES 11-073(0A148)	-7.909	DEPENDE	.8790	. 0581 - 0581	1825	2211 .0959	-3.867 M	DEPENDENT	.0700	0302	0162	1478	.1300		.1170	.8790	0995 1496 0058 0641	2461 2372 2417
	APE			.6210	1741 8259 376	.5213	.1835	•		.0460	.0236	2002	8.85. 8.65. 7.65.	.2054		.1794	.8210	1169 1169 .1158 .1536	3443 3125 7415
TABULATED		BETA (1	AGE	.7790	0016 .0551 .0882	1756	. 1333 . 1030	BETA (2	AGE	.0230	1179	3085	.4087 .4148 .3862	.306¥		. 2292	.7790	0525 0478 0556 0556 .0148	. 1606 . 2128 . 2115
		4.036 B	ER FUSELAGE	.7290	1488 0913	0940	0250 0296	4.041	ER FUSELAGE	.0080	.5267		.5636			*0**	.7290	0016 1887 1260	0517
87. 10.			1) ORBITER	.6520	2034 1434	2086	1086 0963 0954	÷	1) ORBITER	.0000	1.0618					1.0618	.6520	.0240 .0134 2373 1697	1480
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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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	1.0460		593.73		.2040		0574 - 0504	0897	1505	2128	Seson	- 4670	6462	9	6113.1-	-1.4304	1.0460	
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	0666.		a		.1660	į	. 1883	0765	0943	- 82:	- 1609	1000	. X250		.4058	.3769	.9990	2005
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	.8210	.2658			.0460		. 0360 0460	.0641	. 1213	1160	1516	3	. 1938			.1710	.8210	-1172 -1173 -0579 -0733 -0981 -2350 -3025 -3025
19	.7790	. 1783 . 1635	BETA (3)	NGE	. 0230		2 2	人	.2883	88. 88. 88.	9505.		errs.			1	.7790	- 0503 - 0503 - 0894 - 0181 - 0532 - 1903 - 1903 - 1929 - 1697
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F		18 P. P. B. C. S.				.067								0.00.5		3740	763	.082	
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	(XEBB37)				0600	0012	5885	0602	- 265	6696				72		.3780	0083	446.	59
		• 2386.0		0101	0260	0270	1402 1528 787	1421	1442	1402				2386.0		.3010	. 0440		169.
		۵.		0186	0453	0767	2539 2806 3373	3282	2686	2707				•		<u> </u>	. 0883		660
	4.4	593.73		2040	0676 0676	1128	3638 4397	5255	-1.2017	-1.4187	1.0460	.0214 044				0405	. 0838		
-	FUSELAGE	BG •		0771				1766	•		1.0180	. 1441		593.73		971.	••	•••	•
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PRESSURE DATA - DAT48 (AMES 11-073-1	-140A/B/C/R	.59620	BLE CP	.1580						9990	.9600	0138 0248 1295 1771	.2388 .2388	.59620	8	.1580	• •	•••	• •
* - K		MACH	NT VARIABLE	.1120	0866	0647	0712 0719 .0263	. 0980		. 1631	.9210		3072 2612 2920 2900	•	VARIABLE	.1120	.10*1	160 1477 1330	1385
145 F	APES 11-073(0A148)	4.237 M	DEPENDENT	.0700	0412	0465	0510 0450 0044	.0664		1411.	.8790	1088 1530 1112 1935	4054 3798 3589 2182	8.284 MACH	DEPENDENT	.0700		. 1221 . 1389 . 1389	
	AFE	•		.0460	.0295	.0127	.0115 .0222 .0830	. 1485		.1697	.8210	1209 1141 .0072 0042	3009 3009	. 8.0		.0460			0841
- Very Let		BETA (4)	NGE	.0230	. 1072 . 1015	1556	. 1701 . 1892 . 2143	.2280		.2376	.7790	0482 0470 1205 0536	.0508 .1361 .1360 .1563 .1701	(S) Y	₩	.0230		2000 1040 1040 1040 1040 1040 1040 1040	
		4.0.4 B	ER FUSELAGE	.0080	.5130		8649.			.4073	.7290	.0018 -2399 -1574	.0150	19 BETA	PUSELAGE	.0080	.4831		0990
?		*	1) ORBITER	.0000	1.0524					1.0324	.6520	. 2650 - 2657 - 1811	. 0974 . 0885 . 0537	640.4	1) ORCI TER	.0000	9866		
		ALPHA (3)	SECTION (x/LB	PH1 .000 .000	1000	120.000 120.000 120.000 120.000	150.000	169.000 169.000 169.000	180.000	X/LB		120.000 135.000 150.000 165.000	ALPHA (3) =	SECTION (1	X/LB	74. 20.000 30.000	75.000 70.000	120.000

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300					6794		0836	į	1/85										.4970	.9761	.0872	0486	. ZE17	1689	1248	
	(XEBB27)	Ì			978.	0000	0974	1003	2001							i	7		.3780	.0346	5770.	- 0486		1647 -	1631	
	i XE						1657	1022									2362.B		.3010	.0060	.0686	0784 1206	•	2583	2230	
							2875	- 3085									e L		50 50 50 50 50 50 50 50 50 50 50 50 50	.0183	.0314	- 1567 -		- 1856	3847	
	0.4			Ç	1.080 - 1.080		-1.2235	1624.1-	OMBO		.0251	0572							. 2040	57.79	8100	_		- 9899 -	-1.4422 -	
· -	FUSELAGE			į		3296		•	1.0180		2879	. 1335						. !	1770	, • •				6.90		
PRESSURE DATA - DAIYB (AMES 11-073-1	-140A/B/C/R ORB			IRRO	.0930	i I	.8724	.2565	0666.				:	2820 2612		G	1		000	.0301	0.0189	.0381		94 I 4.	.3909	
HB C AME			BLE CP	_				2	.9600	l I	-: 0241	1416			2912 2477	59866	85 W			• •						BLCC:
ra - 041'	MES 11-073(0A148)		DEPENDENT VARIABLE	.1120	.0236			.1167	.9210		1202 1046				3920	•	VARIAB	0611	:	0116	. 1589 . 1589	. 1515 1515				
SSURE DAY	S 11-07	8.284	DEPENDE	.0700	0063			.0682	.8790			1512			4976 3899	.894 MACH	DEPENDENT	0070			. 1548 . 2522	.22 24 .2223 .1133		.0333		
NTED PRE!	A.E.	53 - 8		.0460	erro.			.1192	.8210			0436		0293			_	.0460	•	1602	3.00	.3074 .2097				
TABULATED		BETA (!	AGE	.0230	.1379			.1992	.7790	į	0459	1.1051 1.1051	0610	0017 .0793	9589. 9589. 958. 958.	BETA (1)	닖	.0230		. 3016 3016		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1878			
		6+0-+	TER FUSELAGE	.0080				<u> </u>	.7290		0127	2608 1830		1025	0319		R FUSELAGE	.0080		.6304		.6375				
EB 76			(1) OFBITER	.0000				9866	.6520	č	.0231	2633 1891		1115	0760	- 7.972	1) ORBITER	.0000		.9878						
DATE 10 FEB		ALPHA (3)	SECTION	X/LB	PHI 140.000 150.000 151.000	162.000 165.000	169.000 174.000	180.000	X/LB	Ē		9.00.60	110.000		165.000 180.000	ALPHA (4)	SECTION (X/LB	Ē	20.000 40.000	25.030	90.000 120.000	150.000	151.990	169.000 17.000	

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DATE 10 FEB	B 78		TABULAT	TED PRES	TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	1 - 0A14B	C AMES	11-073-1	-			,	
				AME	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	- (84140)	140A/B/C	YR ORB F	USELAGE			(XEBB37)	3
ALPHA (4) = 7.972	= 7.9		BETA (1) = -7.894	r- = 1	£66.								
SECTION (SECTION (1) ORBITER	R FUSELAGE	36		DEPENDEN	EPENDENT VARIABLE CP	8						
X/LB	0000.	.0080	.0230	.0460	0080 .0530 .0460 .0700 .1120 .1580 .1660 .0770	.1120	.1580	.1660	.1770	.2040	.2510	. 2510 . 3010 . 378	27.
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5	.0000	.0080	. 0230	Ē	90.000	0211. 00		.1580	.1660	.1770	.2040	.2510	3010	3780	.4970	97.G
PH1 180.000	.9878	.2751	. 080	.050	9100. 50	+070· 61	ġ		.1697		-1.7130	3153	1853	114	1098	
97	.6520	.7290	.7790	8	0678. 01	90 .9210	•	.9600	.9990	1.0180	1.0460					
741 746 .000 90 .000 10 .000	. 2480 . 2482 . 2482 . 2482 . 2482 . 2482	.0496 2121 1530	• •	1 1					. 2879 7.796	.3138 5033	.0359					
35.000 55.000 65.000	1610 1290 1204		1343 1343 1105 0866	. 3283 0690 0827	2 - 2504 - 2546 - 2646 - 2664	74 - 1648 - 1362 - 0618		2146 1693 2839								
PHA (4) .		7.98+	BETA (2)		-3.864	MACH	n.	.59866	ø	90 is	59.55		. 2385.8	TANK T	•	€.888
ECTION (130881	ECTION (1) ORBITER FUSELAGE	LAGE		DEPEN	DEPENDENT VARIABLE CP	I APLE	8								

4.8889		.57v0	0101. 883.		
•		.¥970	.0838 .0841 0712 0867 1063 0652		
RAY.		.3780	. 1046 . 1046 . 1046 . 1046		
2385.8		.3010	. 1815. . 1815. . 1885. . 1885. . 5709.		
.*		0163.			
		.2040	. 0120 . 0157 . 0155 . 0155 . 1443 . 14518 . 4618 . 6889 . 13821	1.0460	9900
* 59.38		0771.	8999 8899 1	1.0180	3028
a		.1860	. 3839 . 3839 . 3839 . 3839 . 3839	1 0686	
.59866	es S	.1580		.9500	.0393
	DEPENDENT VARIABLE CP	.1120	. 1049 . 1049 . 1049 . 1049	.9210	0808
64 MACH	EPENDENT	.0700	. 0259 . 0259 . 0259 . 0259 . 0259	.8790	06301113
-3.86	٥	.0460	. 1334 . 1643 . 2156 . 2156 . 1593 . 1044	.8210	- 0630 -
BETA (2)	4.4	.0230	. 3070 . 3070 . 3778 . 3778 . 2965 . 104	. 0977.	.0029
	FUSELAG	0800	5873. 55.135.	. 7290	. 0550
7.90	ORBITER	. 0000	. 0810.	. 6550	. 982 . 1038
ALPHA (4) .	SECTION (1) ORBITER FUSELAGE		PHI		000
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BETA (2) =

ALPHA (4) =

SECTION (130RB1TI	110RBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								•
K/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 70.000 90.000 105.000	- 3516 - 2615	2583	0914 0234 . 0248	.1109 .1514 .7575.	0433 0433 1278	.0041 0709 1248	0894 1321 1874	8							
	2567	1049	. 1381 . 1918 . 1865	.2333 .1417 .0797	2611 2735 2677	1930 1863 1711	1870 2221 1882	- 2508 - 2508					-		
8	0858	0003	1731.	. 2535					4						
LPHA (4)	- 7.990		BETA (3)		H 171.	MACH	.59668	0		594.55	•	= 2365.6	BRVL	•	4.8889
SECTION (1) ORBITER	OR , SELAGE	V GE		GEPENDENT	NT VARIABLE	R CP								
(/LB	.0000	. 0080	. 0230	.0460	.0700	.1120	.1580	.1660	170	.2040	.2510	.3010	.3780	0764.	5740
FF. 000.00	1.0310	.679	. 2729 2023	1489	. 0742 Silve			003+		0053	.0013	.0245	9860	.0960	.1103
5000			3461 18451	1679	186 186 187 188 188 188 188 188 188 188 188 188	0387		.0103		. 0440 . 1	-, 0292	.0259	.0500	.0702	.1307
70.000 120.000		3818	23.09 23.09 01.53	1315 1026 1026	44.00 44.00 10.00 10.00	2000 8000 8000 8000 8000	•	1900 1104		. 2916 1893 1893	- 2566 - 3566 - 3566	- 1545 - 1663 - 3150	1135 1093 1590	0896 0898 1431	
150.000			.1685	7160.	.0275	680		.3012	į	5142 7235	4081	1758	0891	0696	
162.000 165.000 169.000								3500	90	-1.3524	2975	1562	- 0695	0567	
174.000	1.0310	.2785	.1282	.0862	·047	1901.	5018.	.3102	•	-1.5368	2745	1417	0645	0565	
7.6	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0190	1.0460					
PH1 .000 70.000 90.000 .000	. 2524 - 3524 - 2712	28+0 1982	. 0084 . 1203 . 0409	0632 0561 .0534 .0828 .1136	0588 1124 0615 1282 1582	0830 0538 0428 1211	. 5315 - 0200 - 0833 - 1525 - 2018		. 1880	.0381					
	. 1806	0677	.1133	.1166 .375 .3791	2913 2937 2819	2279 2097 2172	2287 2287 20%2	- 2848 - 2380	•						

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:ABULATED PRESSURE DATA - OAIWB (AMES 11-073-1) AMES 11-073(0A1WB) -140A/B/C/R ORB FUSELAGE	
DATE 10 FEB 76	

.9600 DEPENDENT VARIABLE CP .9210 .8790 171: .8210 **是上** BETA SECTION (1) ORBITER FUSELAGE APA - 5 X/LB

2385.8 .9990 1.0180 1.0460 39.38 .59666 -. 2234 -.2235 MACH -. 1274 4.834 1361 .0037 . 7290 -.0698 -.0689 .6520

. 85 6 .2040 170 .1660 DEPENDENT VARIABLE CP BETA (4) 7.990

-.0099 -.0577 -.0528 -.1451 -.1641 -.1712 . 1580 .1120 .0700 .0460

.1032 .1169

. Popt . .

.0508

.0206 -.0235

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> -.0676 -.0626 -.0074 -.0113 .0210 .1790 1250 150 .7290

1.0115 .6520 .0144 -.1576 -.0763 -.3133 .0627

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.000 70.000 90.000 110.000 120.000 150.000 150.000 165.000 165.000 165.000

1186 0971 0476 0225 0197 2382 2382 1988 1988 1988 1637 1637 .0230 SECTION (1) ORBITER FUSELAGE .0080 ±86!. .6680 .0000 1.0115 ALPHA (4) 20.000 40.000 70.000 90.000 1170.000 1170.000 1170.000 1170.000 1170.000 1170.000 1170.000 1170.000 1170.000 1170.000 PH1 165.000 180.000

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PAGE				.4970	2081	- 1664	1389				•		.4970	. 1938 . 1473 . 1270 . 1500 . 3754 1846
	(XE8837)			.3780	2091	- 1641	1278				RN/L		.3780	
	B3X)			.3010	- 28%	2517	1904				- 2385.8		.3010	. 1938 - 1938 - 4784 - 1957
				.2510	6329	4119	3298				۵.		.2510	. 5342 - 5342 - 5343 - 5343 - 5343
				.2040		-1.5775	-1.9982	1.0460	.0002 .0002		594.79		.2040	. 0499 . 0527 . 0918 1502
- -	FUSELAGE			.1770	5710.	0568		1.0180	. 3353 . 2214		1		.1770	· ·
AMES 11-073-1	88			. 1660	3743	. 3392	. 1080	.9990		2739 2739	ø		. 1660	
-	-140A/B/C/R		BLE CP	.1580			299÷	.9600	. 0307 0328 0319 1552	1853 2402 1872 2638	.59676	LE CP	. 1580	
TA - 0A148	\$(0A14B)		INT VARIABLE	.1120	.0073		0008	.9210	0483 0040 0567 0858	1874 1975 1595 0664	MACH =	IT VARIABLE	.1120	. 1041 . 1551 . 0801 . 0763 . 0763 . 0403
PRESSURE DATA	AMES 11-073(0A148)	-7.860	DEPENDENT	.0700	0672		0764	.8790	0197 0766 .0576 .0232	2531 2931 3536 .0510	-3.846 M	DEPENDENT	.0700	. 1724 . 1833 . 2322 . 1919 . 1191 . 1195 . 0130
0	AME			.0460	0319		0371	.8210	0131 .0001 .1606 .39%	.5335 .2591 1182			.0460	2555 2588 3788 2719 2171 2003
TABULATE		BETA (1	AGE	. 0230	.0372		0498	.7790	.0634 .0892 0709 0073	0066 .0428 .0359 .0385	BETA (2)	I GE	. 0230	. 112 . 4546 . 5212 . 4656 . 3826 . 3826 . 1763
		11.959	1 1 OPBITER FUSELAGE	. 0080			. 1082	.7290	.1195 2881	2401 1053 1352		ER FUSELAGE	. 080	. 4281
FEB 76		•		. 0000			.9203	.6520	. 1546 . 1946 - 14563 - 3435	4866 2121 1995 1897	11.981	1.0RB1TER	.0000	g .
DATE 16 FE		ALPHA (5)	SECTION (X/LB	PHI 150.000 151.000	165.000	180.000	X/LB	PHI . 000 70.000 90.000 165.000	130.000 135.000 185.000	ALPHA (5)	SECTION (X/LB	20.000 20.000 20.000 25.000 120.000 151.000 152.000 165.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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		0476. 0784.	Q.A.				* 4.888		0472. 0784.	1632 . 1733	. 1236 . 1925	.1583 .1584 .2429	28	ğ	82		
		3.	0942				٦		3.	9	<u></u>	11.	1158	082	0748		
		.3780	0822				RAYL		.3780	1141	.0835	1645 1697 2655	1085	0794	0711		
		.3010	194M				2385.8		.3010	.0837	. P4 13	2043 2143 4015	2010	1611	1438		
		.2510	2930				•		.2510	9090.	0149	2815 2959 4057	4456	3191	2863		
		.2040	-1.9+36	1.0460	.0569		594.79		.2040	.0587	0145	- 2208 - 3022 - 4209	5702	-1.4570	-1.7497	1.0460	.0537
		1770	·	1.0180	.3330		* 59		0771.				į	126	•	1.0180	. 2027
		. 1660	.2027	. 99 9 0	6	 	ø		. 1660	0700	.0391	1061 1130 0458	- 2759	.295¥	£98	. 9990	
	BLE CP	.1580		.9Eû	.0362 0137 0512 1183	1891 2233 1894 2475	.59676	BLE CP	. 1580						. 4596	.9600	.0326
	DEPENDENT VARIABLE	.1120	.0294	.9210	0504 0063 .0084 0639 1186	2006 1958 1792 1202	MACH	NT VARIABLE	.1120	Ċ	0860		.0301		.0439	.9210	0480 0268
3.846	DEPENDE	.0700	0535	.8790	0159 0746 0088 1477 1947	2705 2724 2163 0343	. 172 M	DEPENDENT	.0700	.1750	. 1663	.0192 .023 0453	0507		0353	.8790	0201 0894
2)3	****	.0460	0327	.8210	0099 .0008 .0869 .1414	.1702 .1043 .2365 .3599			.0460	9.548 6.48	2593.	0.750	.0017		0050	.8210	0037
BETA C 2	AGE	. 0230	0121	.7790	. 0706 . 0865 - 1426 - 0570 - 0097	.0664 .0670 .0531 .0363	BETA (3)	AGE	. 0230	2114.	1.000	7.55. 7.15.	.0451		. 0039	0677.	.0826
	1) ORBITER FUSELAGE	.0000	<u>~</u>	.7290	. 3434 3434 2398	1030 0937 0406	.991 B	1) ORBITER FUSELAGE	. 0080	.8176		.2753			.1071	.7290	. 1288
11.981	1.3 ORB1T	.0000	.9483	.6520	. 1673 . 1958 4940 3607	1978 1523 1233	=		.0000	79567					79267	.6520	. 1662 . 1852
ALPHA (5)	SECTION (X/LB	PH1 180.000	X/LB	PH1 40.000 90.000 100.000	150.000 150.000 150.000 165.000	ALPHA (5)	SECTION (X/LB	. 000 . 000	40.000 80.000	70.000 90.000 170.000	150.000		174.000 180.000	X/13	PH1 .000 40.000

DATE 10 FEB 76	8 26		TABULATED	Q.	RESSURE DATA - DAI48 (AMES 11-073-1	7A - 0A11	HB C AMES	3 11-073-	-					PAGE	18
				£	AMES 11-07.	11-073(04148)	-140A/B/C/R	8	FUSELAGE			(XE8837)	837)		
ALPHA (5)		11.991 a	BETA (3	3) =	571.							*			
SECTION (1) ORBITER	IER FUSELAGE	AGE		DEPEND	DEPENDENT VARIABLE	IBLE CP								
X/LB	.6520	.7290	.7790	.6210	.8790	.9210	.9600	. 999 0	1.0180	1.0460					
PHI 705.000 105.000	5180 3765	3778	1829 0867 0016	.0165 .0548 .1037	0832 1445 2100	0534 1134 1674	0935 1438 1990	1							
120.000	2320	1113	.0714	1732			2106	2880 2461							
150.000 165.000 180.000	1616 1085 0967	0912	. 1348 1348	.4080	3015	2359 2347	2133 2239								
ALPHA (5)		.985 80	BETA (4		4.243	MACH	.59676	o	6 5	594.79	•	- 2385.8	FN/L		4.8888
SECTION (1.30RB1.T	1) ORBITER FUSELAGE	AGE		DEPENDENT	INT VARIABLE	BLE CO								
X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	5000	.3010	.3780	.4970	5740
PH1 .000	4086 .	.8023	3997	5				90		ğ			. !		
20.000 40.000			3057	. 2338 - 647		.0581		0270		0083	1000.	83/0·	5/01.	86.1.	C891 .
55.000 70.00			. 1836	.0330		1183		- 1857		. 2.689					95.
120.000 140.000		1190	. 1105	0185 0342	0553 0553 0893	0793 0193		1721 1721 1095		3517	- 400 - 400 - 400 - 400	2357 2265 3339	1912 1685 1702	1922 1612 1424	
150.000			.0196	0147	0724	.0033		.1704	278.0	8124 8124	3796	1645	0857	0866	•
162.000 165.000 169.000 174.000							ž	78,5	. 2571	1.4069	2969	1503	0769	0797	
180.000	.93 9.	1 60.	.0070	0185	0517	. 0299		.2326	•	1.7440	3008	1534	0852	0937	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 . 000 . 020 . 020	.1635	.126	.0596	3162	0260		.0239		.3289	.0465	•				
70.030 90.030 105.030	517-	4047		05%	1418 2253 3373		1249 1679 2356			0233					
110.000 120.009 150.000 150.000	2423	1728		.0316 .3678 .4279	3988 5724 3974			3220							

(XE8837)

The second second

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

				4.8888		.5740		. 1536	.1361															
						.4970		.1440	.0345			1601.	0773	1031	1436									
				FN/L		.3780		0960.	0377		1671		. 0810	- 1960 -	1337									
				2385.8		.3010		₩290.	- 1080 -		2215 2215		- 1598	- 1626 -	1912 -									
				•		9510		.0371	0715		3299		3501 -	3058	3260									
		1.0460				.2040		.0385	- 1906 - 1906	367B	. 3948 . 3948	.6:57		-1.3723	-1.7681	1.0460		81.40.	04 IB					
		1.0180		594.79		0771.				•	•	•	3583		ī	1.0180		Tax.						
		0666.		Ó		. 1660		.0503	1156	ייייייייייייייייייייייייייייייייייייי	2255 1845 1845		. 0059 659	0081	1450	0666.					3300	- 2585		
	R CP	.9600	2102	.59676	KE CP	.1580									0. ¥.	.9600		.0156	7000	1768 2644		3116	3030	
	DEPENDENT VARIABLE CP	.9210	3071	MACH =	DEPENDENT VARIABLE	.1120		9000	0701	1.007	- 1353		USC		0029	.9210			1437			- 3838 - 3838		
4.243	DEPENDE	.8790	2535	8.313 M	DEPENDEN	.0700				1524			<u>8</u>		0894	.8790				2716		5167		
		.8210	.4226			.0460		.2329	9290.	1070	0939		/ 000 · -		0430	.8210				1.1402		.0313		•
BETA (4)	JOE	.7790	.1063	BETA (5)	IGE	. 0230		.3698	. 1696	-, 0056	0004		0.410		0302	0677.		8559				1121 0438	. 0505	
	CR FUSEL	.7290	0313		R FUSEL	.0080		.7557			0623				.0138	.7290		178	4107			2526	0799	
- 11.985	1107011	.6520	1000	= 11.975	11 ORBITE	. 0000		. 8809							.8809	.6520		. 1512 5741	5054	3887		2335	- 1195	
ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	Æ	20.000	40.000 55.000	70.000	90.000 120.000	140.000	151.000	165.000	174.000 180.000	X/LB	3	000.			110.003	135.000		

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267	-		000	2.9112		.5740	.0552	0625							
PAGE 5	57 DUA 1		85.600 10.000 1.400			.4970	- 0596 -	0955	ועכט	.0231	0580	0783	0941		
	050	DATA	SPOBRK L-ELVN • MACH	7		3780	.0365	0818		- 0931	1072	11711	1230		
	(XE8838)	PARAMETRIC	16.300	441.83		.3010		•							
		PARA	555	*		M.	0226	1478	٤	1723	1648	1615	1407		
			RUDDER = BOFLAP = R-ELVN =	۵.		.8510	0068	1736	- 1882	1682	2899	2470	2831		
			202	600.20		.2040	0238	1753	1409	0885	0936	1+W	2456	1.0460	.2176 8280 -
_	FUSELAGE			• 600		0771.						8049	·	1.0180	1.1311
11-073-1	88		i	a		.1660	0531	.0955	7235	. 2922 3644	1.000%	1.0614	9966	. 9990	1810
0A148 (AMES 11-073-1	-140A/B/C/R			1.3931	KE CP	.1580							1.0982	.9600	- 2515 - 2203 - 1067 - 0260 - 0527 - 0326 - 0554 - 0554 - 2293
			828	MACH	DEPENDENT VARIABLE	.1120		0640.	218	.2684 2574.	.5568		.5597	.9210	- 2069 - 1248 - 0507 - 0507 - 0540 - 0540 - 0540 - 1947
RESSURE DATA -	3 11-073(0A148)		.0000 IN. .0000 IN. 575.0000 IN.	-3.853 MA	DEPENDEN	.0700	9116	.0637	3146	3403	.4807		.4734	.8790	-1516 -1760 -1512 -1205 -1205 -1205 -1103 -1739
ο.	AMES		3.75.0			.0460	.0857	. 1274 	, 510/ 14131	.6085 .6087	6249.		.6024	.8210	4401. 19889 19889 1989 1989 1989 1989 1989
TABULATED		₹	XMRP YMRP ZMRP	BETA (1)	ĘĘ	. ນ230	.2068	. 44 32	6869.	.8107	. 795¥		.7267	.7790	- 0394 - 0757 - 0758 - 0588 - 0588 - 0591 - 0622 - 3891 - 3891 - 3891
		REFERENCE DATA	50.FT. IN. IN.		DORBITER FUSELAGE	.0080	.6756			.9÷00			1.0231	.7290	.0501 .0511 .0595 .0419
B 76		REFER	2690.0000 474.8000 936.0680 .0300	-4.002	110RBITE	. 0000	1.474.1						1.474.1	.6520	. 0196 . 0965 . 0965 . 0345 . 0149
DATE 10 FEB			SREF = 20 LREF = 1 BREF = 5	ALPHA (1)	SECTION (X/LB	000. 000.	£0.000	70.000	90.000	150.000	162.030 165.000 169.000	130.000 190.000	X/LB	741

				ē	# *			,			
898		2.9112		.5740	0531				2.9112		
PAGE		•		.4970	0507 079! 0013 0510	0750			•		0641 0729 0115 0178
	338)	S RN/L		.3780	.0384 .0637 .1077 .1298 .1781	. 1811.			PR/F		.3780 0311 - 0519 - 1385 - 1525 -
	(XE8838)	• 441.83		.3010	0143 1653 2412 4052 1837	1474			- 441.83		. 20139 2217 2280 2380 4546
		٩		.2510		2771			٩		
		600.20		.2040	- 0285 - 0438 - 1160 - 0739 - 0101 - 0750 - 1695	1557	1.0460	. 0739	600.20		0431 0431 0363 0810 1074 0585
÷	FUSELAGE	- 60		.1770	.6547 .7383		1.0180	. 1938 	- 600		2
11-073-1	8	ø		. 1560	0558 0551 .0732 .0732 .1573 .2557 554	1.0348	0666.	2069 1939	ø		- 0808 - 0808 - 0808 - 0808 - 0808 - 0808 - 1204 - 1204
B I AMES	-140A/B/C/R	1.3931	BLE CP	. 1580		1.0922	.9600	2513 2063 1312 0563 0804 1211 0192	1.3931	RE CP	
A - 0A148	-073(0A14B)	MACH .	NT VARIABLE	.1120	0498 0486 .0446 .1638 .3805 .5137	.5595	.9210	2056 1225 0105 0520 0520 1134 1134 1134 1134	MACH .		
SURE DATA	S 11-073	. 193 н	DEPENDENT	.0700	.0179 .00950 .0550 .1700 .2333 .3333 .4502	.4847	.8790	1619 1621 080 0542 0171 0243 0779 1680	.276 HJ	DEPENDENT	. 000 . 000
TED PRES	AME	(2	·	.0460	.0857 .0959 .1138 .2378 .3099 .3807	.6106	.8210	0964 0906 0906 0906 0908 0918 0938	÷	į	
TABULATED		BETA (2	AGE	. 0230	.2130 .3875 .3886 .5818 .5818 .5447 .7187	. 7353	.7790	0361 0564 0026 1497 2010 3010 3010 3010	BETA (3)	GE STEE	2005. 1715. 1715. 1717. 1817. 1817. 1817. 1817. 1817. 1817.
			11 ORBITER FUSELAGE	.0080	0273. #867.	1.0107	.7290	0156 .0352 .0358 .0581		R FUSELAGE	. 6587 59.49
FEB 76		33.940	(1) OKBITE	. 0000	1.4793	1.4793	.6520		-3.950	110PB1TER	
DATE 10 FE		ALPHA (1)	SECTION	X/LB	PH1 20.000 25.000 70.000 120.000 1150.000 1150.000 1150.000	159.000 174.000 180.000	X/LB	PH1 .000 70.000 90.000 105.000 110.000 150.000 155.000 165.000	ALPHA (1)	SECTION C	PH: 20.000 40.000 70.000 95.000 120.000

TABLE ATEN BOSCOLOS DATA - DAING / AMCC 11-072-1	
DATE IN EFP 78	

350 0.4970 -. 1210 -. 1080 -. 1000 3780 -. 1404 -.1721 (XE8838) 路.王 .3010 -.1761 -. 1298 -. 1506 -. 3:5t -.2874 .030 -. 3041 -.2008 .2040 -.1677 -.2634 1.0460 .2107 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 0771. .5470 .6538 1.0180 .1906 . 999 . 1660 .8470 .9963 1.0122 1.0382 .9600 .1580 1.3931 DEPENDENT VARIABLE CP -.1934 -.0580 .0188 . 1120 5472 .9210 -.2034 -.1250 -.0112 -.0538 .4601 MACH .0700 .4866 -.1604 -.1644 .0900 .0365 -.0563 .0552 .0308 .1243 .3489 .4153 .8790 -3.869 -.0280 -.0756 -.2301 -2103 .5709 .609 .0460 .8219 .0319 .3512 .3699 4220 = . 0230 -.0428 -.0327 .0072 .1440 583 .3444 .3649 .3701 .3808 .7357 .7790 **BETA** SECTION (1) ORBITER FUSELAGE .0080 -.0212 .0084 .0450 .7290 -.0133 .0249 .0238 -3.950 .030 .0000 6550 . 45.5 ALPHA (1) ALPHA (2) PHI 150.000 151.000 162.000 165.000 171.000 180.000 42.000 90.000 90.000 1105.000 120.000 135.000 185.000 Ŧ

-.0199 576 -.0298 -. 0268 £970 -.0323 -.0326 -.0568 -.0913 -. O427 -.0911 -.0197 -.0498 -.0945 -.1478 .3780 .001 -. 1506 - 1551 -.0529 .3010 .0135 -.2245 . 2.86 -.0499 -.1502 .0350 .0119 -. 3127 -.0077 -.0257 -.0527 .1372 .1410 .1410 .1602 .2040 -.1976 0771. 2157. 1719 -.0161 -.0038 -.0019 .1619 .326 .3021 .1660 . 1580 DEPENDENT VARIABLE CP 0027 0475 1635 2264 36497 3852 .1120 .0700 0855 0855 1592 2955 3321 3371 3596 9460 1680 1909 18433 3806 4346 4790 5445 547 .0230 .3218 .3538 .5360 .5360 .6487 .7296 .7796 6630 1) ORBITER FUSELAGE .0080 7997. .9107 1.4798 SECT ION

1.0220

(XE8838)

FUSELAGE
a g
-140A/B/C/R
11-073(04148)
AMES

	į	i.					2.9073		976	0234						
		.4970	. 09¥2				•		6707.	0146	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0702	0709	0716		
		. 5780	- 1693 -				FW/L		.3780	9010.	• • •		- 1651	1613		
		900.	1992				* #1.36		.3010	.0280	137. 137. 2152	P.35	2069	1653		
		S.	3363				a .		0.00	6600.	- 119. - 119. - 2105.	3535	3228	3525		
		.2640	3004	1.0460	. 1822 . 1822		599.59		.2040	0088 0196	84.20 0999 04.21 7.63.4	0251 1930	-, 1999	· 海道	1.0460	.2684 . 1469
		.1770		1.0180	.2500 .2349		296		.1770			C S S	7141		1.0180	2599 2046 3404
		. 1660	3646.	0666.	9	. 1848 . 1848	ø		1660	0083	. 10070 . 1007 . 1573 . 2252	.4730	6,56	.9822	0666.	
	E CP	.1580	•	9600	1853 1564 1379 0841	1367 0190 .0464 2560	1.3931	LE CP	. 1580					1.0269	.9600	1882 1605
	T VARIAB	.1120	.3725	.9210	1482 0572 0209 0220	1137 0289 .1174 .2261	MACH	IT VAF!ABLE	.1120	.0189	. 0959 . 395 . 395 	.3583		3775	.9210	1445
698	DEPENDENT VARIABLE	.0700	3468	.8790	0997 1159 . 0649 . 0547	.0341 .0341 .0496	. 183 MA	DEPENDENT	.3700	. 0895 6895	. 1396 . 2250 . 2430	3335		.3690	.8790	1301
-3.869	_	.0460	.5062	.8210	0360 0415 .0446 .1247	.3311 .3210	.3050		.0460	.1677	2094 2495 3761 3776	.4682 4453.		5112.	.8210	0281
TA (1)	냂	.0230	.6044	0677.	.0085 0123 1299 0855	.3322 .3188 .3177	.3093 BETA (2)	ા સુ	.0230	.3332	5573 5573 5573 5773 5773	.6414		.61.40	.7790	.013+ .0r82
30 BETA	7 FUSELA	.000	.8951	.7290	.0106 0688 0211	0184	.0137 .036 BE	R FUSELA	coed.	.7389	.7703			.8823	.7290	. 0229
030	: JORBITER FUSELAGE	0000.	1.4798	.6520	0019 0076 .0167	0196	0274	1) OPBITER FUSELAGE	.0000	1.4830				1.4836	.6520	0038
ALPHA (2)	SECTION (х/гв	PH1 180.000	X/LB		130.000 130.000 150.000 150.000		, Z	X/LB	144 .000	\$2.000 \$7.000 77.000	120.000 1+0.000	151.000 152.000 165.000	000 - 42.1 000 - 42.1 000 - 68.1	X/1.5	PH1 .009 .000

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PACE 571	_							- 2.9073		0472. 0784.	.32790319	.04770288	0477	0538	. 0831	.0930	.				
	838)							3 38/1		.3786	6500.				2002	÷. 1825	1693				
	(XEBB38)							. 141.36		3010	.0223	0210	1885	4518	P±10	. 1851	2089				
								•		55.	.000	0037	2535 2684	2679	3546	3645	3382				
				1.0460				599.59		.20th0	0157	- 200 - 200	030+	0323	2455	2143	3173	1.0460	2588	. 15ci	
- -	FUSELAGE			1.0180				200		0771.					5276	6		1.0180	3.536 3.636	CD02	
11-073-	88			366G.		2289		o		. 1660	0.0	. 500. - 500. - 500.	1572	.3667	. 8223	8836.	7+76.	0666.			2752
- 0A148 (AMES 11-073-1	-140A/B/C/R		BLE CP	.9600	1653 1051 1457	2173 0780 0285	3004	1.3931	BLE CP	.1580							976.	.9600	1850	- 1932 - 1953 - 1953	
			DEPENDENT VARIABLE	.9210	0540 0564 1207	1507 0360 0524	. 1280	MACH	IT VARIABLE	.1120	0	0238	.0659	.2155	.3049		.3681	.9210	1415	0916 0919	
PRESSURE DATA	AMES 11-073(0A148)	. 183	DEPENPE	.8790	.0212 0243 1233	.0013	.3366	4.255 M	DEPENDENT	.0700	.0968	2001	1598	. 228 4	.3082		.3796	.8790			
_	AME			.8210	. 098+ . 098+ . 12+3	.1991	.4208	*		.0460	1456	. 1676 86.50 86.50	2296	. 3905	5784.		.5210	.8210	n306	. 0883 . 0905 . 0905	25.75 10.05
TABLATED		BETA (2)	NGE	. 0677.	1226 . 0231 . 1556	. 2830 . 2954	.3105 .3248	BETA (3)	GE	. 0230	3268	1616 1616	.4887 5262	.5720	.5897		.6173	.7790	.0096	0927 0380 1380	.2243
		036 81	ER FUSELAGE	.7290	0968 0423	.0259	.0176	.034 BE	R FUSELA	.0080	.7889		.6235				.8609	. 7293	.0216	1192	.0093
9 76			1) ORBITER	.6520	0019 . 0252	.0108	0076 0146		110RBITER FUSELAGE	. 0000	1.4713						1.4713	.6520	9161	0102	.0166
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	PH1 70.000 90.000 105.000	135.000 135.000 150.000	165.000 180.000	ALPHA (2)	SECTION C	X/LB	. 000 . 000 . 000	40.000 55.000	90.000	140.000	150.000	165.000 165.000 169.000	134.000	X/LB	PH!		110.630 120.303 133.033

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AMES 11-073(0A148) -140A/B/C/R ONS FUSELAGE

BETA (3) -

.03₩

DATE 10 FEB 76

		,	2.9108		.5740	5710.	.0307							
			•		.4970	.0212	.0116	0868	0864 1495	1093	0923	0768		
			PN/L		.3780	.0507	.0415	0417	0915	1858	1830	1991		
			441.36		.3010	.0402	.0333		1061	3245	2764	2406		
			•		.2510	.0380	.0590		1287		3551	3825		
	1.0460		599.70		.2040	.0331	.0241	1758	1906	.1078	2433	3447	1.0460	89.83 F
	1.0180		*		.1770					į	7451		1.0180	\$68 6.
	3666 .		o		1660	.0450	.060. .0886	1840	5565	.9388	.9861	.9107	0666.	2739 -
XE CP	.9600	3380	1.3932	ALE CP	.1580							.9520	.9600	1152 1569 1378 2143 2143 0243
DEPENDENT VARIABLE CP	.9210	. 0594	MACH	DEPENDENT VARIABLE	.1120		.0734	. 2092 2092	3020	.2921		.2730	.9210	
DEPENDEN	.8790	.2506	-3.872 M	DEPENDEN	.0700	.1667	.1754	¥.	3319	.2742		.2518	.8790	0320 0538 0625 1030 1030 0208 0531
	.8210	.3163	3.		.0460	.2687	.3503	4368		.4465		.4137	.8210	.0286 .0279 .0878 .0542 .1135 .1522 .2317 .2330
មូ	.7790	.3043	BETA (1)	Ä	.0230	. 4368	. 6256	.6936	702.	.5699		.4809	.7790	.0863 .0623 2000 1681 1037 .1979 .2296 .2296 .2296 .2370
R FUSELA	. 7290	. 0242		R FUSELA	.0090	9228			.8749			.7623	.7290	1519 0895 1028 0533
1) ORBITE	.6520	0177	* 3.89 ⁴	1.10RB1TE	.0000	1.4697						1.4697	.6520	. 0382 . 0575 . 0576 0256 0945 03473
SECTION (1) ORBITER FUSELAGE	7LB	PH1 165.000 180.000	PHA (3)	SECTION (1) OPBITER FUSELAGE	7.EB	PH1	20.000	55.000	90.000	50.000	151.000 162.000 165.733	180.000	7.8	PHI . 000 40.000 70.000 105.000 120.000 135.000 150.000 165.000

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573		2.9108		57.60	.0257	.0179												2.9108		5740	g*10.	9100.	
PAGE				.4970	.0237	.0129	1073	- 1031	0577	.0576	0561							a a					0.88 € 0.88 €
_		FRYL								ı								Z.	;	3		0086	1102 0968 0749
	(XE8838)			.3780	.0587	.048	0981	197	1718	1871	1914									3780	.056	. 9.	1489 1898 1719
	QX C	- 141.36		.3010	.0553	949.	1056	- 3651	2303	2523	2114		•					441.36		3010	.0423	.0281	1572 2290 4233
		۵.		0.05.	.0305	. 0683	1780	1925	594B	3615	3547							•		0165	.0218	.0650	
		599.70		.20¥0	.0350	2.0. 2.1.0.		. 0022 . 0022	6047	2417	3837	1.0460		.3426 .2264				70 P		.2040	.029	2000 2000 2000 2000	0319 0319
~	ORB FUSELAGE	# 536		.1770					.8220		•	.0180	; ;	. 3064				- 599.70		0771.			•
- 0A148 (AMES 11-073-1		G		. 1660	.040.	0737	1.289 2.1.6 3.1.6 3.1.6	1118	. 0100	.9503	.9369	. 9990		ļ	2822 2815			ø		. 1660		0537	.0700 .1512 .3728
C AMES	-140A/B/C/R	1.3932	LE CP	.1580						Š		.9600		1199 1095 1575 1958	120	1234 0796	.2928	. 3932	<u>в</u>	.1580			•
		E	I VARIABLE	.1120	100	2002	1461	. c.30g	3		.2799	.9210			•	- 15831 - 000-	- 1920.		VARIABLE	.1120	Ē	0810	0750 0770 847
PRESSURE DATA	AMES 11-073(0A148)	183 MACH	DEPENDENT	.0700	.1749 1881	2702	4824. 804. 804. 804. 804.	£236			.2744	.8790		0320 0353 0499 1211		- 0150. - 0857		+6 MACH	DEPENDENT	.0700	1806		1716 1501 1938
•	AMES		_	.0460	.2667	968 988 988	.3374 .3558 4053	11121			.4188	.8210		.0375 - .0392 - .0290 - .0366 -	1298 -	Q =	3918	4.246	8	.0460	88	3533	.2624 .3373
TABULATED		(A (2)	W	.0230	. 4385 4576	.5513 58913	.5934 .6002 .6002	5.288			. 496a	.7790		.0717 .0790 1943 - 1158	. 1944	2091	. 2566	((3)		0230	.+338 .4215		. 4951 . 4988 . 5090
		5 BETA	FUSELAC	.0080	.9189		.7319				7440	.7290		0637 1790 1175	.0438	7,00.	. 0025	BETA	FUSELAGE	. 0800.	9093	• •	.5827
5 5		3.895	1) ORBITER FUSELAGE	.0000	.4719						.4719	. 6520		.0698 .0608 .0606	0239 -		0208	3.906	1) ORBITER FUSELAGE	. 0000	1.4584		- •
DATE 10 FEB		ALPHA (3) =	SECTION ()	X/LB		40.000 55.000	70.000 90.000 120.000	150.000	151.000	169.000 174.000	000	x/LB	5	20.000 20.000 20.000 20.000	'n			ALPHA (3) =	SECTION (1)(X/LB .(40.000 55.000	76.009 90.000 120.000

DATE 10 FEB	B 76		TABULATED	ED PRESSURE	SURE DATA	- 0A148	_	AMES 11-073-1	•					PAGE	574
				AMES	MCS 11-073(0A148)		-140A/B/C	-140A/B/C/R ORB FUSELAGE	USELAGE			(XE8838)	38)	•	
ALPHA (3)	•	3.906 86	BETA (3)		4.246										
SECTION (1304817	11 ORBITER FUSELAGE	رود		DEPENDENT	T VARIABLE	SLE CP								
X/LB	.0000	. 0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	. 2040	.2510	3010	3780	.4970	.5740
PH1 140.000 150.000 151.000			£164.	8+0+.	.2210	.2260		.7901	150 150 150 150 150 150 150 150 150 150	1624 2672	4057	2914	56	0642	
162,550 165,000 169,000								9668.	.6107	2580	4050	2302	2056	0710	
180.000	1.4584	.7246	.4953	.¥296	.2763	.2699	. 8973	.9329		3648	3809	2491	1981	0857	
א/רפ	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 - 000 - 70 . 000 - 90 . 000 - 90 . 000 - 105 . 000	.0501 .0518 0540	.0537 1876 1197	. 0919 - 1910 - 1910 - 0250	.0357 .0563 0259 .0226	0308 0338 0671 1437	0782 .0001 1388 1416	1179 1091 2188 1785		.3580	.3502					
135.000 135.000 150.030 165.000	0129 0226 0336	0 <i>227</i> .0218	. 1537 . 2226 . 2337 . 2327	.0046 .2285 .2151 .2652	0953 0669 .0003	2491 1430 0782	3378 1774 1458 3380	3661							
ALPHA (+)	7.9	. 922 BE	BETA (1)	* -4.	-3.861 MACH	# 5	1.3932	o	* 399	599.39	•	• 441.12	FN/L	•	2.9102
SECTION (1.1098178	1) ORBITER FUSELAGE	ĞE		DEPENDENT	T VARIABLE	LE CP								
X/LB	.0000	0800.	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	0189.	.3010	.3780	0/Bh.	.5740
PH1 . G00	1.4373	1.0398	.5552	.3777	1829.	9		.1138		9260	.0886	.0725	.0985	.0820	.0793
40.00 000.00			7085	5054. 5164.	3381			1725		0.00	.1275	1311.	.1085	.0749	.0970
70.70 90.30 120.00 120.000		.8264	. 6631 . 5762	4538 4356 3851	3188	.2381 .2275		. 1956 . 1992 . 5147		2230 2230 1809	1040	0283	0269 0823 3380	1066 1317 2842	
150.000			.4574·	.3301	.2135	.2088		.8896	8008		4337	3820	2193	1247	
66.050 166.050 174.598							.805¥	.9190	7238	2856	4007	3220	2035	0888	

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PAGE (XE8838) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TA - 0A148 (AMES 11-073-1 DATE

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BETA

7.922

ALPHA / 43

513

5740 5740 0000 \$88. 2.9102 5EF. -.1514 -.1619 -.1713 -.0668 .4970 .0862 .0675 -.0514 -. 9462 -. 97P Z -.0916 -.1375 -.3340 3780 -. 1990 -.2164 3780 .1058 .0997 -.2049 -. 1845 ¥1.18 .3010 -.2496 -. 2705 .3010 -.0864 -.1250 -.3571 -.2933 .078¥ .1039 -. 3437 .035 -.4167 -.1457 -.1627 -.1838 -.4006 .835 .0765 .1016 -.4371 -.4290 .2040 -.3810 .0967 .0813 .0649 .0770 .1483 .1501 .1501 .0150 1.0460 .4402 .3267 .2040 -.4169 -.2835 3017 1.0460 599.39 .173 .170 1.0180 1.0180 .4947 .4045 0666. . 1660 1232 1211 1480 1303 1374 1374 .8695 .1660 .9990 . 7934 .8812 8838 .1580 .9600 -.2397 -.1217 -.0914 -.0261 -.0425 -.:701 -.?101 . 1580 .9600 -.0269 9533 MACH = 1.3932 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .9210 -.0087 .0979 -.1359 -.1915 -.1339 - 1307 .0015 .1328 . 1120 .1120 -.0059 .1673 .1775 .1607 .1610 .1428 .9210 .1881 . 1992 . 1983 .0406 .0198 -.1374 -.1309 -.0575 -.0480 .0378 .0700 .1847 .8790 .0700 2568 2568 2568 2587 2587 2587 2587 2587 2587 2587 .0466 .0404 8790 .1857 1951 . 182 .0460 .3200 .8210 .0996 .1117 .2314 .0318 .0695 .1253 .1259 3795 3794 4007 3827 3459 3343 3284 .11.78 .1287 .3203 .0460 3289 .8210 .3364 BETA (2) .0779 .0641 .0790 .0790 .0230 .3656 .0230 .5579 .6326 .6163 .5853 .5652 . 14*82* . 1619 .1790 .4326 .730 **.** (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.2349 -.0286 .7290 .1163 .0080 .621 -.1712 . 3080 .6073 . 1253 -.0242 . 1290 1.0427 .689 7.892 -. 0848 -. 0581 -. 0480 .1017 .1378 -.1318 .0000 1.4373 -. 1802 .0000 .6520 .6520 .0927 1.4426 - FE36 ALPHA (4) PH1 180.000 SECTION *0.000 70.000 90.000 1105.000 1120.000 1135.000 1155.000 1165.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.00000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20. Ī Ē X/LB X/LB

PAGE							ب •		.4970	.080	.0426	1934 1534 0999	0576	0581	0718			
	938)						RN/L		.3780	. 1089	.0870	1439 1864 2225	1814	2111	2095			
	(XE8838)						- 441.12		.3010	.0724	.0674	1340 1762 3974	330₩	2619	2702			
							•		.2510	.0760	. 0602	1840 2095 2549	4406	4316	4108			
				1.0480			599.39		.2040	.0852	.0309	. 1020 . 1020 . 0767	0329 2795	2934	3971	1.0460	.4379	
	FUSELAGE			1.0180			£ 29		.1770				.5087	. 5853		1.0180	.37153	
AMES 11-073-1	-140A/B/C/R ORB FUSELAGE			0666.	•	3352 3352	ø		. 1660	.1117	0.030	. 3813 813 813	.7365	.84.15	ċ£68.	.9990		3362
-	-140A/B/		BLE CP	.9600	20199 2034 2815	2754 1711 1178 3103	1.3932	BLE CP	. 1580					7060		.9600		3629 2106 1628
A - 0A148	1104148)		INT VARIABLE	.9210	1602 2107 2985	2093 125: 0588 .0167	MACH =	NT VARIABLE	.1120		1300	0851 0667 1341	. 1587		. 1872	.9210	0081 .0684 1701	2711 1711 1248
ABULATED PRESSURE DATA	AME: 11-07310A148)	. 182	DEPENDENT	.8790	1486 1929 2244	0840 0215 .0338 .2369	4.245 M	DEPENDENT	.0700	.2724		1735	.1437		. 1957	.8790	.0433 .0411 1420	1254 0750 0423
NED PRES	AME	2) *		.8210	0986 0151 .0533	.0476 .1438 .3666	B		.0460	.3687	3387	2450 4145 1272	.3210		.3450	.8210	. 1070 . 1293 - 0951 - 0309	28.59. 28.59. 39.54.
TABUL		BETA (8	AGE	.7790	2697 2245 0363	. 0930 . 0932 . 0926 . 0995 . 1248	BETA (3)	AGE	.0230	.546G	3.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4	4718 4718 4430	. 3944		.3762	.7730	. 1355 . 1556 - 2590 - 1443	42.00 42.00 47.01 47.01
		7.89 <i>2</i>	1) ORBITER FUSELAGE	.7290	2464	0415 0415 0164	7.830 B	ER FUSELAGE	.0090	1.0273		.5429			. 584k	.7290	.1238 2358 1695	0593
FEB 76		•	1108811	.6520	1379	0664 0401 0289		1) OPBITER	. 0000	1.4316					1.4316	.6520	. 1036 - 1237 - 1237 - 0632	0340
DATE 10 FI		ALPHA (4)	SECTION	X/LB	90.000 90.000 105.000	135.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 .000	140.000 15.000	70.000 90.000 120.000	150.000	155.000 165.000 169.000 174.000	180.000	жлв	PHI - 0100 76.000 90.070	170,000 172,000 172,000

.0549

.5740

2.9102

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(AMES 11-073-1)
- 0A14B
TABULATED PRESSURE DATA
DATE 15 FEB 76

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE 7.830 ALP: IA C 41 .

				9000	7/16:		2	. 1515	.1687																
				•	•	6601	2/64.	.1488	. 1443	- 0072	1353	4857	1597		1036	-,0590									
				200		7.700	9	.1436	.1792	910	- 969	4334	2569		2183	2060					•				
				01.144		2010		. 1223	.1761	0128	0345	2986	4277		3606	2899									
				۵		0198		.1417	.1735	0727	0982	1213	4701		4321	4389									
		1.0460		600.12	}	0402.		164	1570	1287	.2261	. 18-68 8-68	0739	;	328t	+304	1.0460		. 5050	.3612					
		1.0180		. 60		.1770	•							. 583.45 42.86			1.0180		.5987	. 5201	•				
		0666.		ø		. 1860		. 1842	. 2450 2450 26450	. 1908	. 1823	. 4286	.8751		.8422	.7955	9880					- , 978G	3273		
	NBLE CP	.9600	3381	1.3941	BLE CP	. 1580									ļ	.6764	.9600		.0815	0318	2129 2129	9000	8577	1583 2086	3290
	DEPENDENT VARIABLE CP	.9210	0603	MACH	DEPENDENT VARIABLE	.1120		2502	. 29189.	. 2350	. 1967	201.	.1308			. 1202	.9210		.0897	1973	2526 2526	0.15	2295	1370 1366	. 0265
•	DEPENDE	.8790	.1827	-3.851 M	DEPENDE	.0700		.3544	4041 14041	3363			. 1418			.1168	.8790		_	- d				0536	
		.8210	.2688			. 0460		.5103	5505	4547	4109 9705	0.00	.2193			.2292	.8219		. 1867	- 67.79	0867			2280	.3532
,	AGE	.7790	.1143	BETA (1	AGE	. 0230		:6734 .7181	. 7886	.6748	10.70	}	.3495			.2546	.7790		. 22:17 17:25		3071 2051		0346	1420	0900 0663
	'ER FUSEL	. 7290	0092		ER FUSEL.	. 0080		1.1464		1667	<u>0</u>					.4826	.7290		.2000		553		1928	1738	0627
	1109811	.6520	0336	• 11.870	1.08817	.0000		1.3887								1.3887	.6520		. 1802 		1531		· 1889	0970	0595 0595
	TECTION (1) ORBITER FUSELAGE	X/LB	PHI 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI	.000 20.000	55.000	70.030	120.000	140.000	150.000 151.000	162.000 165.000	169.000	180.000	X/LB	ijĘ.	2000			110.000	135.030	150.030	

10 FEB

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5740 . 1467 . 1212 2.9072 -.2343 . 1469 .*970 .1061 N Z . 1454 . 1810 . 3846 .3780 . 1505 .1304 141.12 -. 1209 -. 1485 -. 3809 .3010 . 1207 .0797 -. 1579 -. 1888 -. 2408 .85 .1356 .0652 .2040 1536 1288 0531 0074 0203 0990 0380 600.12 .170 1596 1427 0445 0606 0641 3602 .1660 Ø . 1580 = 1.39+1 DEPENDENT VARIABLE CP .1120 2089 1837 0549 0790 0504 0882 MACH .0700 3637 3165 3019 2125 1620 1367 4.255 .0460 .4835 .4517 .4137 .3307 .2394 .2188 .2188 BETA (3) .6386 .6386 .8013 .5051 .4503 .4290 .0230 1109BITER FUSELAGE .0080 ¥164. 1.1405 11.873 .0000 . 3825 ALPHA (5) 20.000 25.000 25.000 26.000 20.000 SECTION X/LB

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p				.5740					,		183		5740	2378	5559			
579					•	_	-				2.9183		•	•	•			
PAGE				M970	.0635	0548	0753				•		.4970	.2253	.2305	1068 1301 4130	.3193	1162
				88	; ;	12							8	2	ž.		E .	
	(XE6838)			.3780	-17	1985	2056				•		.3780	.2187	₹.	0152 0565 5146	3093	2463
	(XEB			.3010	. 3568	282	2914				- 441.82		.3010	. 1933	.2227	0195 0242 2999	4799	4023
				.2510	4722	4500	4337				a .		.2510	.2139	. 2333	0698 0901 1251	5108	4654
				.2040	0671	3273	4263	1.0460	.5072 .3471		599.99		.2040	8	. 2212	11857 1867 1778	0249	3757
1.	FUSELAGE			.1770	.4831	. 5569		1.0180	. 4598 . 4598		- 59		.1770					75.
AMES 11-073-1	8			. 1660	.6562	.7615	.8190	0666.	Q Q F	5.55. 1.05.	σ		. 1660	.2737	3119	1557 3029	.7891	.8049
_	-140A/B/C/R		BLE CP	.1580			.6758	.9600	. 2732 - 2732 - 2524 - 3909	4219 2171 2152 3632	1.3929	RE CP	.1580					.5827
A - 0A148			NT VARIABLE	.1120	.1061		.1193	.9210	. 2963 - 3066 - 4113	3044 1733 1433 0893	MACH	VT VARTABLE	.1120	Ř	3818	. 1612 . 0838	.0621	
PRESSURE DATA	MES 11-073(0A148)	. 255	DEPENDENT	.0700	. 0860		.1271	.8790	. 1286 . 1159 2378 3953 3988	1710 1078 0429	3.829 M	DEPENDENT	.0700	.4653	5071	324 2706 .0821	.0637	
	AFE	3) = 4		.0460	.2290		.2568	.8210	. 1986 - 2167 - 1162 - 1402	1397 .1418 .2852	,		.0460	9999 8603	6376	3733	.1113	
TABULATED		BETA (3	AGE	. 0230	.2920		.2585	.7790	. 3309 - 3309 - 3806 - 3806 - 0709	.0113 0623 0114 0469	BETA (1)	AGE	. 0230	.7970	. 8639 7548	.6483 .564 .467	. 2491	
		11.873 B	ER FUSELAGE	.0080			.4347	.7290	. 2085 3363 2258	0959		ER FUSELAGE	.0000	1.2455		.7026		
8. 97.		•	1) ORBITER	. 0000			1.3825	.6520	. 1634 . 1750 2190 1185	0718 0425 0388 0578	= 15.853	1) ORBITER	. 0000	1.3143				
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PH1 140.000 150.000 151.000	162.000 165.000 169.000	180.000	X/LB	PH1 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000	135.000 135.000 150.000 165.000	ALPHA (6)	SECTION (X/LB	PH! .000	40.000	20.000 120.000	150.000	165.000 165.000 169.000 174.000

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DATE 10 FE	FEB 76		TABULATED	4	PRESSURE DATA		- 0A148 (AMES 11-073-1	11-073-	-					PAGE	280
				AME	AMES 11-073(0A14B)		-140A/B/C/R	ORB B	FUSELAGE			(XEBB38)	338)		
ALPHA (6)		15.853 BI	BETA (1)		-3.829										
SEC:10N (1 1 ORBITER	ER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	BLE CP								
87/x	. 0000	.0080	0£23°	.0460	.0700	.1120	.1580	.1660	0771.	.2040	.2510	.3010	.3780	.4970	.57+0
PHI 180.000	1.3143	.3167	1547	.1437	.0530	. 0642		.7289		4385	4575	3032	1927	0679	
א/רפ	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PHI .000 40.000 70.000 90.000 105.000	.2185 2556 1431	.3022 4418 3164	.3270 .3683 5217 3748	.3054 .3147 4658 2019	. 2429 . 2216 - 4568 - 3077	.1787 .2772 3967 3229	. 1592 . 1019 2621 3318		. 5623	5485. 5485.					
135.000 135.000 150.000 165.000	2849 1193 0804	1922 3184 0989	10g+ 0330 1666 2031	.0982 .0409 .1475	1983 2013 3729	2807 1824 2734 0582	2932 2172 3079	3483 3483							
ALPHA (6)	a 15.866		BETA (2)	•	. 185 MACH	E	1.3929	o	• 599	599.99	<u>.</u>	* **1.82	RN/L	•	2.9183
SECTION (1) ORB! TER	TH FUSELAGE	Ä		DEPENDENT	T VARIABLE	TE CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	5150	.3010	.3780	0.794.	.5740
PH1 .000 20.000	1.3214	1.2516	.8021 .8037	.6013	. +691	5		5742		.2385	.2120	.1936	.2161	.2284	.2307
40.000 55.000			.6287	. 5650	.4396	3161		.2431 8431		1558	.1587	.1722	.2034	. 2029	.2253
70.030 90.000 120.030		.5698	.5306 .4707 .3511	.3283 .2731 .1714	. 2285 . 1844 . 0620	. 1444 . 0926 . 0572		. 1013 . 0937 . 3181		\$ 7.5 6.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	1121 1407 1798	0787	0862 1190 5261	1976 1953 3210	
150.003			.2273	.1356	. 0585	.0655		.6320	.5500	. 0303 1669	+76 4	4480	- 5415	1057	
165.000 169.000							į	.7361	•	35:0	4532	3353	- 1846	0647	
180.000	1.3214	-2844	.1606	. 1606	. 0625	.0709	140.	.7590	•	4636	4799	2839	1744	0555	
X/LB	.6520	.7290	.7790	.8210	. 0548	.9210	.9600	0666	1.0180	1.0460					
PHI .000 .40.000	. 2892 . 2892	.2982	.3512 .368*	.3147	.2466 .2272	.1707	1801		.7014	.5518					

11-073-1
(AMES
- 0A14B
DATA
PRESSURE
TABULATED

(XE8838) AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE . 85 <u></u> BETA **15.866** DATE 10 FEB 76 L'PHA (6)

2.9183 N N ₹.:82 1.0180 9990 -.3312 -.2352 -.2643 -.3621 -.2895 -.3184 -.4321 1.3329 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -. #375. -. 4543 -.2587 -.1793 -.2329 -.0722 .9210 4.285 MACH -.1934 -.1136 -.2797 -.5029 -.3751 -.4107 .8790 - .4619 - .2347 - .0846 -. 0205 . 0026 . 2643 .8210 .2802 BETA (3) - 5474 - . +024 - . 2867 .7790 SECTION (1) ORBITER FUSELAGE -. 1612 -.1748 -.0505 -.4879 .7290 **15.858** -.1177 -.3458 -.2118 .6520 PHI 70.000 90.000 110.000 135.000 155.000 165.000

.4970 .2232 3780 .2163 .3010 . 1959 .2510 .2073 .2040 .1770 . 1660 . 1580 .1120 .0700 .0460 .0230 SECTION (1) ORBITER FUSELAGE .0080 .0000 LPHA (6) X/LB

2966 2701 0220 0685 0685 0371 .4627 .4073 .3624 .1980 .1108 .0423

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X/LB

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.5962 .5526 .4825 .3023 .2273 .1881 7920 7519 6573 7950 1110 13849 1305 1305 .4372 1.3159

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-.1774 .3050 .3163 -.4324 -.2701 -.1902 .0557 .2347 -.0423 -.1784 -.1135

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

ALPHA (6) = 15.858 BETA (3) = 4.285 SECTION (1) ORALTED FIRES ARE

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LC .6520 .7290 .7790 .8210 .8790 .9210 .9600 PH1 165.000 -.0562 -.0761 -.1040 -.1028 .2579 .2806 -.0748 -.3659

.9990 :.0180 1.0460

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S ALC			٠		. 4970	1003	3	3510.	- 0261	076	086	0937							
	C DATA	SPOBPK L-ELVN HACH	Par.		.3780	0686	0937	5.07.0	095i 133i	1 <i>2</i> 77	1435	- 1664							
(XEBB39)	PARANETRIC	16.300	551.57		.3010	0531	1520		£13.	2307	2855	- 1808							
	•	RLODER • BOFLAP • R-ELVN •	•		.2510	0177	2037	_		3945	2913	369							
		585	599.79		.2040	0087	2011	.0196 .0733	.0738	1997	2666	3744	1.0%60	.2200	.0883				
FUSELAGE			900		.1770					5507	7095		1.0180	¥.	. 1418				
2/R 0R8 I			0		.1660	01%1	0380	. 1903	. 1949 . 1949	.9229	.9789	.9111	9860				1.1571		
-140A/B/C/R ORB FUSELAGE			1.2464	BLE CP	.1580							563. 1	.9600	2673	2681 1943	0755 0927	0502	282	. 507.
		222	# HOW:	NT VARIABLE	.1120		0543 0566	. 1226 . 2682	.3258 .5282	. 1609.		.6056	.9210	16.Y	1464 0016	.0121 0426	0349	. 1503	000
AMES 11-073(0A148)		6800 IN. 0000 IN. 0000 IN.	-3.847	DEPENDENT	.0700	.0052	.0373	553.	.3697 .4824	.5374		.5235	.8790	1955	2038 .1471	.0467	.0128	1540	966
AFE		1076.6800 .0000 375.0000			.0460	.0667	 50:1:	955. 4089	.4864 .6128	.6456		.6137	.8210	1187	1223	.2783 1775.	2992	.4780	8064 .
	4 :	2000 2000 2000 2000	BETA (1)	AGE	.0230	. 1865	25. 40. 40.	2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	.7356 .8015	.7928		.7320	.7790	0581	0864 0120	.3011	5754.	4722	.4539
	FERENCE DATA			110781TER FUSELAGE	.0080	.628			9219			1.0061	.7290	0236	. 0012	\$1 \$.e73	. 1010	. 1222
	18	2690.0000 474.8000 936.0680	-3.991		.0000	1.4031						1.4031	.6520	.0027	069 .0813	.0953	.059	1460	3.6. X = 0.
		SAEF - BREF - SCALE -	ALPHA (1)	SECTION (X/LB	1. 000.	\$0.000 \$0.000 \$0.000	25.000 00.07	90.000 120.000	150.000	162.000 165.000 169.000	180.000	X/18	14. 000.	*0.060 70.000	9.65 6.68 8.88 8.88	120.000	156.98 186.98	180.000

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PACE SB	(XEBB39)	11.57 RN/L = 3.0146		3010 3780 3780 075.	.055307570529056%	.122209350572	.20881170DD16 .31971244D50 .4954192094D8	247316240507	171717020547		.1518:648:590				551.57 PN/L * 3.0146	į	•	.0510057910261564 	1952 - 1377 - 10167 1679 - 1273 - 10167 1511 - 2584 - 16510
		. 551		E: 0122.	00880	13661	33753 32433 27434	36592	- 34861		40651				•			'	13851 3851 3845
		97.		.2040	.0006	0379	9010. - 0881. - 0881.	1610	rere -	•	3446	1.0460	.0787		599.79		.2040 040	0061	- 0845 - 0481 - 0472 - 1843 - 1564
_	ORB FUSELAGE	- 599		.1770				;	.5644			1.0180	.2342 .1050		£ 23		170		
11-073-1		•		. 1660	-,0092	0248	. 1323 . 1550 . 1650	.8517		.9500	<u></u>	.9990	- 3062	2051	o	,	. 1660	0345	0258 .0230 .0730 .0948 .2787
(AMES 1	-140A/B/C/R	1.2464	-E CP	.1580	•						1.0422	.9600	2532 2182 1067 1285	1546 0551 0327 3625	1.2-54	ABLE CP	.1583		
- CA148	-073(0A148) -		I VARIABLE	.1120		0308	. 1829 . 2281	5719			.6147	.9210	2503 1598 0358 0336	1219 0227 .0439	RACH .	VARI	.1120	10. 10. 10.	0325 .0207 .0904 .1250
IRE DATA	11-073(8	DEPENDENT	.0700	.0253	\$1.00 \$7.50	. 2298 . 2298 . 2709	, 585.			.5364	.8790	1970 1930 .1064 .0512	0551 .0133 .1159	. TTS.	CEPENDENT	.0700	. 0279	. 0159 . 0826 . 1293 . 1817
O PRESSURE			_	. C'4E'D	05.70	95.00 94.00	3029	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	!		.6225	.8210	1162 1095 .2936 .2657 .2657	. 1417 4553 4707 5787	<i>3</i>		.0460	######################################	
TARE ATED		(S)	Ж	.0230	6001	3559	. 5558 . 6258	, 7089 	;		表表。	.7790	0486 0552 .1159 .2264 .3257	. 3667 + 1517 + 167 + 167 + 1680	BETA (3)	AGE	.0230	2891.	3910 3910 3712 3113
		9 BETA	FUSELA	.0080	0700	8 8	.7801				6 766.	.7290	0236 0354 .0402	.1305		IR FUSÉLAGE	. 3080	.6181	.6365
ų		= -3.979	110PBITER FUSELAGE	.0000		9/04/1					1.4076	.6520	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	.0725 .0433 .0352		1303B1TER	. 3888	1.3943	
		ALPHA (1)	8	x/LB		20.000 000.05	55.000 76.000 90.000	120.000	151.030	165.000	174, 330	X/LB	FH1 - 988 - 76 - 908 - 93 - 900 165 - 500	110 100 100 100 100 100 100 100 100 100	ALPHA L 11	SECTION	X/LB	P#1 . 930	460.000 460.000 460.000 100.000

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DATE 10 FEB	37 63		TABULATED	ED PRESSURE	SURE DATA	- 04148	-	AMES 11-073-1	_					PAGE	
				AMES	3 11-073(0A!48)		-140A/B/C/R ORB		FUSELAGE			:XE8839)	(33)		
ALPHA (1)	-3.988		BETA (3)		4.277		PV								
SECTION (1 1 CRBITER	ER FUSELAGE	SE		DEPENDENT	IT VARTABLE	LE CP								
X/LE	. 0000	0800-	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.8310	.3010	.3780	6784.	5740
PH1 140.000 159.000 151.000			.6856	.5685	3444.	.5078		.7673	. 4599	3188	3922	1955	2214	067¥	
162.000 165.000 169.000								.9042	799	2792	419	- 164	1903	0921	
174.000 180.000	1.3943	.9762	.7422	.6180	.5279	.6021	.9876	₩826.		3837	3528	1775	1650	3942	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666	1.0180	1.0460					
74.020 70.030 90.030	0107 0107 0583	0169 +210	0558 0475 1479 2219	1160 1030 .2936 .2749 .1884	- 1961 - 1984 - 0848 - 0094	2447 1571 0576 0872 1223	2725 2555 2407 1424	.	. 1552 . 1552	. 1018 . 1018					
000.021 000.021 000.021 000.031 000.031	.0576 .0164 .000.	.1349	.3200 .4101 .4356 .4445	.4549 .4530 .4530 .4530	1510 0438 .0649 .2838	2355 1131 0556 .0345	2635 1502 1273 3767	- 3073							
ALPHA (2)		. 058	BETA (1)	-3.	-3.868 MA	MACH =	1.2468	a	. 596	599.66	Q.	- 551.10	TANK!	•	3.0101
SECTION (I JORBITER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	RE CP								
X/LB	. 0000	.0900	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	55.	.3010	.3780	015th.	340
PH1 . 000	1.4136	.7633	.3014	.1666	.0812			.0159		.0250	.0238	0097	0244	0638	0607
20.000 40.000			. 9416 0110	.1795	. 1385 . 1385	.0515 .0515		0.00		0738 0738	0774	0676	0220	0785	0430
86.000 10.000 10.000 10.000 10.000		.8970	.6846 .6846 .7210	43.00 1.07.2. 1.07.2.	.3396 .3396 .4038	. 2734 . 3227 . 4709		. 2326 . 2753 . 5663		. 1262 . 0720 . 0855	2532 2348 1816	1026 1933 4104	0801 1240 1626	0331 0325 1805	
			.6834	.5322	.4057	.5174		₩006.	6341	2291 2291	4561	3050	1687	0916	
		•					1.00%	.9453	9089	3199	4003	3017	- 1648	0867	

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

-3.868

BETA (1) =

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ALPHA (2) =

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		_	-						i	3.0101		•	0534	0300							
			0767							•		2/87.	0547	0586	0396	0505			05£1		
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	51.50		. 15/0						•		i i		.0328	0435	3048 2982	•	. 7007		4841		
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	.1770	•	010		. 2661				# 290		0771	?		1			.6184 .6184		·	1.0180	.3105 .2183
	. 1660	8676	0666			3012	!		œ	ı	.1660		.0191	.0540	. 2064 . 2064	.8230		五16.	. 9023	0666	
BLE CP	.1580		.9500	1691	2051 2250 1369	-, 1263	0429	3286	1.2468	RE CP	.1580	1						9000	9066.	.9600	1876 1985
DEPENDENT VARIABLE	.1120	1818-	.9210	1735	0530 0530 0498 1199	1208	0307	. 1642	MACH =	NT VARIABLE	.1120		.0228	. 1257	.1805 .2267	4264·			.5217	.9210	17160818 -
DEPENDE	.0700	.3981	.8790	1177	1338 .0736 .0490 0205	0470	0210 .0526	.3667	.m 771.	DEPENDENT	.0700		.1064	. 1198 . 2091	.3.729 87.73 31.39	.3751			.4105	.8790	1175
	.0460	.4986	.8210	0475	0444 .1742 .1469	.2228	.3737 .3697	. 3623			.0460		.1497	. 1992 . 2835	.3566 .3566 .4575	.5106			.5012	.8210	0406 -
.AGE	. 0230	.6095	.7790	.010	0090 1714 0: 63 .160 ^c	.3319	3883	.3562	BETA (2)	IGE	. 0230		3246	.5337	-5/35 -6/35 -6/82	.6407			.6225	0677.	. 0092
110RETTER FUSELAGE	080	.8779	. 7290	.0182	1054	0125	.0465	. i 039	.062 86	R FUSELA	.0080		.7597		.7564				.8681	.7230	.0235,
1 1 1 ORE : 1	.0000	1.4136	.6520	.0199	0160 .0109 .0317	0007	.0085 2800.	.00.	11	1)0381TE	. 0000		1.4168					:	1.4168	.6520	.0503
 SECTION :	хлгв	PH1 180.000	X/LB	PH1	70.000 90.000 105.000	120.000	150.000	180.000	ALPHA (2)	SECTION (1)02BITER FUSELAGE	X/LB	ij	. 000 20 . 03 20 . 04:	55.000	90.000 170.000	150.009 151.000	162, 936 165, 966 169, 969	174.000	183.PC0	X/LB	PH1 .000 40.000

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6										- J		.4970	0616	0767	0450	0506	0629	0667		0780					
	(260032)	18500		•								.3780	0248	0325	1723	1685	2266	2223		2023					
	ş	ž								• 531.10		.3010	0025	0460	2263	5308	2627	2251		es//					
					·				•	a.		918	.0250	015¥	3504	3571	4353	4709	1	/ 					
	Įų.	ŀ		•					500 Be	0		0402.	.0200	0116	1021	3096	3750	3332	1, 1, 75,0	00010	 .2603	<u>+</u>			
<u>.</u>	FUSELAGE			-	•						į	0//1.					484	5882		00.0	-28S	.2215			
0A148 (AMES 11-073-1	/C/R ORB			0000		3360			C	;	0001		.0006	.0513	1.192	BO TC .	. 7459	.8698	.8891					- 3647	}
48 (AME	-140A/B/C/R		ABLE CP	.9800	2505 1556 1909	2010.	1243	3532	1.2468	و ا		3						i	었	0096	1780	2019	2312		2537
•	3(0A14B)		INT VARIABLE	.9210	0890 0877 1591	1827	0921	.0577	MACH *	DEPENDENT VARIARIF	.1120		0047	.0149	. 1171 . 1171		4. 382 5		.5088	.9210		1208			1557
TABULATED PRESSURE DATA	AMES 11-073(0A148)	171.	DEPENDENT	.8790	.0253 0189 0916	0789	. 0660 . 0660	. 2926	4.254 M	DEPENDEN	.0700		.0789	. 1426		6	DR.X:		.3970	.8790		0023			5732 -
TEO PRES	AME	-		.8210	.1715 .1296 .1258	.1757	.3324	.4761			.0460		.1568	1971	.3732 .3732	4710	D		.5077	.8210					.33255 -
TABULA		BETA (2)	AGE	0677.	1198 .0785 .2070	2949	3731	3771	BETA (3)	Ę,	. 0230		.3016 .2973	.4376	.5387 .5611	5000			.6206	.7790		. 0555 . 0812			in the second
		. 062 B	1) ORBITER FUSELAGE	. 7290	1108 0454	.0315	9770.	.0811		1) ORBITER FUSELAGE	.0090		.7±8 8		.6126				.849Z	.7290	. 0263	.0556	·	118	2332
3 76			13048178	.6520	002F.	.0336	.0288	.0182	.021	ORBITE	.0000		1.4068						.406 8	6520	0236 0296			0375	e e e e e e e e e e e e e e e e e e e
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	PH1 76.000 90.000 105.000	120.000	150.000	180.000	ALPHA (2)	SECTION (X/LB		20.000 20.000 40.000	55.000 70.000	90.000 120.000	150.000	151.000 162.000	169.000 174.000		X/LB		473.999 43.019 43.019	110.010	•	•

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DATE 10 FEB	37.6		TABULA1	TABULATED PRESSURE DATA	URE DATA	•	CA148 (AMES 11-073-1	11-073-						PAGE	588
				AMES	AMES 11-073(0A148)		-140A/B/C/R	ORB	FUSELAGÉ			(XE8838)	339)		
ALPHA (2)	•	.021 BI	BETA (3)		4.254										
TION C	1.108911	SECTION (1) ORBITER FUSELAGE	AGE		DEPENDENT VARIABLE	T VARIAE	JE CP								
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0566.	1.0180	1.0460					
PHI 165.000 190.000	.0079	101.	.3486	.3807	2165	0093	3810								
ALPHA (3)	3.0	3.934 BI	BETA (1)		3.873 MACH	E	1.2469	ø	. 596	599.77	•	• 551.10	RN/L	•	3.0099
SECTION 1	1) ORBI TE	1) ORBITER FUSELAGE	AGE		DEPENDENT	T VARIABLE	A.E. CP								
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
PH1 .000	1.4024	. 8860	4152	3275.	1584	Š		.0578		96+0.	.0633	.0402	.0305	0148	0172
40.00 00.00 00.00 00.00			. 607. 200.	3480	. 2223	. 1355 2355 2355 2355		 200 200 200 200 200 200 200 200 200		.0376	.0284	.0100	.0482	0167	. 0005
86.000 80.000 80.000 80.000		.8624	.6889 .6915 .6551	.4495 .4611 .4672	.3273 .3268 .3200	.2535 .2535 .2866 .3738		25.25. 25.25. 25.25. 20.21. 1.70.		. 1691 1691 1219 . 0973	2212 2158 1969	0764 1369 4057	0748 1321 2749	1076 1006 1721	
150.000			.5703	.4292	.2706	.4123		1678.	!	. 0258 2368	5077	3934	1949	1038	
152.000 162.000 165.000								6	.6156 .6489	3714	4654	3564	2072	0809	
	1.4024	7446	.4877	.4033	1575.	.411	.9534	.8281		4720	4720	2896	2280	0544	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	9380	1.0180	1.0460			•		
000°	4140	.0716					0803		.4080	3448					
20.00 20.00 20.00 20.00 20.00	. 0552 0552 0261	1881	24.99 24.99 1.1880 0.00	0176 0176 . 0525	0055 0053 1412	1010 1130 1791	-, 1487 -, 2498 -, 1847 -, 2290		. 3803	.2500					
	6794	0957	. 2513 . 2613	2607	. 0884	2219		3458 2877							
	6080 6034	.1048	2719	. n			3307			·					

FEB 76		TABULA	TABULATED PRESSURE	SURE DATA	A - 0A148	+8 (AMES		_					PAGE	283
			AMES		11-073(0A148)	-140A/B/C/R		ORB FUSELAGE			(XE	(XE8839)		
3.935		BETA (2)	# S	. 189 M	MACH #	1.2469	ø	# 59	599.77	۵.	551.10		RN/L =	3.0099
1) ORBITER	FUSELAGE	AGE		DEPENDENT	NT VARIABLE	ABLE CP								
	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	0771.	.2040	.2510	.3010	.3780	.4970	.5740
	.8873	1914.	.27+8 2708	.1839	02.00		.0584		4490.	.0705	.0497	. 0245	0069	0111
		5350	3019	.2037	1010		1098		.0526	. 0382	.0108	.0254	0222	0094
	.7235	5766	3463	. 2389 8243	1637		.1975	*	.11.6	2662	1528	1341	1103	
		.5799	. 3987	.2427	.3224		.4348		9000	2688	4637	2154	1053	
		.5395	.4232	.2479	.4033		.7911	.5362	- 3295	5132	3712	1863	0592	
						į	.8783	. 595 1	3703	4412	2930	2130	0479	
	.7376	.5079	.4100	. 2863	6424.	1100.	.8637		5137	5144	2666	2248	0469	
	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
	.0875 1831 1281	. 1000 . 0996 - 2446 0601	.0387 .0526 .0078 .0330	0352 0506 0602 1019	0950 .0137 1395 1491	0819 1432 2740 2026		.3300	. 2200					
	.0303	. 2178 . 2362 . 2443 . 2622	.1008 .2937 .4133	1097 0387 .0262 .2302	2561 1456 0691 .0058	2575 1932 1503 3592	3679 3259							
m	3.939 BE	BETA (3)	<i>a</i>	.e42 MA	MACH =	1.2469	o	# 59g	599.77	a.	. 551.10	PRN/L		3.0099
ш	1)ORBITER FUSELAGE	IGE		DEPENDENT	IT VARIABLE	RE CP								
	.0090	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	.4970	.5740
	.877¥	5814.	.2853	.1860	ָ נ		.0439		0408	. 0657	.0535	.0272	0113	0188
		1. 15.03.	198	1735	9000 9000 9000		1070.		04.0	.0456	¥010.	.0095	0422	0308
	.5750	+707 +882	. v. v. 25 to	1591. 1771.	.0779. 0829		1713			3067 		1869	1066	
		.5026	.3257	. 1638	.2270		.3391		0943		5145		0694	

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.5740 .5740 .0472 .0658 3.0131 230 PAGE .¥970 -.0502 -.0639 -.1489 -.1796 -.2922 .4970 .0495 .0500 -.1153 -.0823 .3780 -.2131 -.2398 -.2270 .3780 -.1309 .0923 \$. . . -.2171 (XE8839) 學. 156 .3010 -. 3264 -.2756 -.2827 .3010 -.0583 -.0979 -.4042 .0907 .0849 -.4053 -.4766 .2510 -.5037 -.4576 -.5174 .2510 -.1728 -.1950 -.2030 9660 . 1272 -.5146 -.5556 .2040 .3811 -.2632 -.4895 1.0460 0963 0880 1180 1917 1959 1654 1085 0264 2061 . 2040 -.4183 599.84 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .1770 1.0180 .4036 .1770 5964 -073-1) . 1660 .7236 .8350 8519 .9990 -.3927 -.3608 .1660 1190 1720 1796 2267 2515 2946 4973 8536 .8795 .1580 .8918 .9600 -.4222 -.2574 -.2213 -.3804 -.0899 -.1368 -.2974 -.2251 -.2754 . 1580 -3.863 MACH = 1.2467 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 -.0925 -.0025 -.1691 -.1767 .3513 +00+ .9210 -.3336 -.2088 -.1478 -.0528 .1120 21.82 21.82 21.63 22.63 23.78 25.10 .2331 .0700 -.0372 -.0476 -.0761 -.1299 -.2588 .2698 .2127 .8790 .0700 . 1824 .0460 .3897 .0412 .0554 .0225 .0143 4147 .8210 .0247 .2339 .2395 .0460 .3771 .3985 .4510 .4815 .4397 .7397 .3359 BETA (3) BETA (1) .0230 .4955 . 1650 . 2523 . 2703 . 2614 . 2614 .5052 .7790 .0909 .1072 .2041 .0123 .0230 5847 5844 6974 7118 6913 6519 SECTION (1) ORBITER FUSELAGE (1) ORBITER FUSELAGE .0080 -.2001 .7290 .7129 .0841 -.0125 .0966 .0080 1.0338 .0555 .8120 3.939 .0000 .6520 .0192 .3569 .0655 .0127 .0008 39+0 .0000 1.3704 ALPHA (3) ALPHR (4) PHI 140.000 150.000 151.000 162.000 165.000 169.000 174.000 .000 40.000 90.000 105.000 110.000 125.000 155.000 155.000 SECTION 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 X/LB

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
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							121012		.5740	?	0440.	.0286										
						·	•		.4970		.0492	1800.	2081	09¥9	0481	0455	- 0627					
							. NA		.3780		.0931	.0593	1843 -		- 1904 -	2277	- 2310					
							551.34		.3010	•	.1024	.0598	_	- £0±0	3632	3056	3153					
							۰		93.		.0955	. 0846	2554 2970	3333	5597	5361	4901					
		1.0460					599.84		.2040		.0891	.0596	1023	0529	4139	4208	5306	1.0460	.4100			
		1.0180					8 8		.1770						.4378	1 664.		1.0180	. 5203 .4053			
		3990		3917			ø		.1560		. 1104	.0999	.1387	. 5037	.7027	.8030	.8214	0666.			4312 3695	
	ABLE CP	.9600	2693 2317 2849		2450		1.2467	BLE CP	.1580							1	.8381	.9600	0593			2885 259+
	DEPENDENT VARIABLE	.9210	1828 2013 3115		1920		MACH	INT VARIABLE	.1120		. 1222	. 1280	. 0669	0661.	. 1852		.2194	.9210	0082 .0736	1950		2330 2016
. 182	DEPEND	.8790	1103 2207 2893	1576	0836	.1794	4.243 P	DEPENDENT	.0700		.2710 .2218	. 1985	1609	0/21	.1137		.1690	.8790	.0500			0916 0916
= (2		.8210	0944 0126 .0611	.0423	.2408	.4724	3) = 4		.0460		3505	.3352	֓ ֓ ֓ ֡ ֡ ֡ ֡ ֡ ֡ ֡ ֡ ֡ ֡ ֡ ֡ ֡		.3139		.3415	.8210	. 1312 . 1466 - 1466	0408	+. 0864 34.70	
BETA (AGE	.7790	3151 2582 0319	型	. 1579 . 1679	. 1973	BETA (3	AGE	. 0230		.5360	. 1883 1. 1883 1. 1883	1867	:	.3980		.3891	. 7796	.1776		.0875	, N
7.897	TER FUSELAGE	. 7290	2505	0870	0333	. 0022	7.878 B	ER FUSELAGE	.0080		9366.		.5254				.5705	. 7290	.1495		0663	0021
	(1) ORBITER	.6520	1343 0741	0686	0170	0089	n	1.103BITER	.0000		1.3633						1.3633	.6520	.0808	0557	0110	0056
ALPHA C 4	SECTION	X/LB	PHI 70.000 90.000 105.000	120.000	150.000	180.000	ALPHA (4)	SECTION (X/LB	Ŧ	80.000 80.000	55.300	90.000 170.000	140.000	151.033	165.300 169.000	180.000	X/LB	PH: -0.000 -0.000 -0.000	80.838 80	180.000 185.000	150.000

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				AME	AMES 11-073(0A148)	(0A14B)	-140A/B/C/R ORB		F JSEL AGE			(XE8838)	33)	•	
3	. 7.	7.878 BR	BETA (3)	•	4.243										
28	1 1 ORB 1 T	SECTION (1) ORBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
	.6520	.7290	0677.	.8210	.8790	.9210	.9600	9886.	1.0180	1.0460					
	0188	0110.	.1820	.3904	. 1228	1328	3912								
(2)		11.869 BE	BETA (1)		-3.849 M	MACH .	1.2475	ø	- 60	600.06	٥	- 550.87	T/NE:		3.0127
SECTION (1109911	110RBITER FUSELAGE	4GE		DEPENDENT	IT VARIABLE	BLE CP								
	.0000	. 0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	2510	.3010	.3780	.4970	.5740
000	1.3193	1.1117	.6643	8 + 8 + ·	.3579	á		9191.		. 1622	1434	.1371	. 1622	. 1247	1341
800			.7792		4128	3035		27.49.		1677	.197 ⁴	.1579	.1813	. 1273	.1572
70.000 90.000 120.000		.7523	.6631 .6033 .4759	4.508 4.048 8.0508	2803	2027 2027 1756		. 1938 . 2438 . 4656			1197	0487	0563	- 1486 - 1905 - 4402	
888			.3377	.2282	.1167	. 1422		.8425		. 1036	5935			1548	
152.000 162.000 165.000								96+8	.5944 .5999	4615	5548	4480	2363	1050	
	1.3193	.4607	.85	.2334	.0957	.1271	.7836	.7616		5460	5336	3392	2080	0626	
	.6520	.7290	0677.	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
	.1904 .2228 2531	3805 2838	. 2893 . 3190 . 4113 . 3551	. 2291 - 2291 - 2277 - 0936	. 1021 . 1021 . 2240 . 2557	.0953 .1652 2107 2338	.0754 0319 2550 2662		.6110 .5299	. 3193					
120.000 135.000 120.000 165.000	1909 1060 0579 0539	2062	0083 .0006 0452 .0469 .0735	. 0549 . 1764 . 3068	1831 1434 0768 .1818	2827 1844 1752 0194	3860 2841 2815 3931	4005 3006							

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	
DATE 10 FEB 76	

		rs Fa		.5740	1376				r.		5740 1267	.1120
3		3.0127			• •				3.0127		•	-
PAGE.				.+970	. 1267 . 1090 2224 2550 0888	0433			٠		.1184	. 3071 2501 1404
	839)	7 RN/L		.3780	.1605 .1430 .1271 1821 5499 2189	- 1921			FRVL		. 1678	. 1966 - 2375 - 3621 -
	(XE8839)	- 550.87		.3010	.1559 .1300 1483 4335 4727	3214			- 550.87		.3010	.1038 1754 2002 4721
		۵		.2510	.1353 .1539 .2228 2651 5914	5728			٠ م		.1381	. 2060
		800.06		.2040	.1691 .1535 .1216 .1251 .1367 .1367 .0500 3197	5721	1.0460	.3018 .3018	90.		. 2040 . 1548 . 1253	.0249
_	ORB FUSELAGE	- 600		0771.	5152. 5152.		1.0180	. 4902 4902	± 600.06		.1770	·
		o		. 1660	.1991 .2019 .11904 .1269 .1970 .4254	.7800	.9990	4390	ø		. 1660 . 1876 . 1635	.1381 .0388 .0668 .1680
_	-140A/B/C/R	1.2475	BLE CP	. 1580	r E		.9600		1.2475	BLE CP	.1580	
A - 0A148	-073(0A148)	MACH ==	INT VARIABLE	.1120	. 1559 1559 1559 1559 1756 1359	. 1364	.9210	. 1586 . 1586 . 1586 . 1560 . 15560 . 1560 . 1702 . 1702	MACH =	NT VARIABLE	. 1961	. 1640 . 0451 . 0711 . 0468
뚩	=	.187	DEPENDENT	.0700	.3704 .3418 .3618 .2307 .7105 .1418	.1034	.8790	.1249 .1086 .2577 3063 3513 1356 0666	4.252 M	DEPENDENT	. 3565 . 3105	2926 1949 1426 1771
1	AMES	2) =		.0460	.4917 .4829 .4777 .4001 .3423 .3128 .2564	. 2395	.8210	. 2202 . 2323 1987 1004 	#	i	0940. 0484. 04844.	. 4046 . 2834 . 2791 . 2031
IABULATED		BETA (;	AGE	. 0230	. 6679 . 6781 . 6888 . 6141 . 5478 . 707. . 1165 . 5236	.2738	.7790	.2981 .3182 .4184 .4335 .1862 .0422 .0734 .0734	BETA (3	AGE	. 6586 . 6586	.5880 .4913 .4328 .4087 .3540
		. 810	ER FUSELAGE	.0080	.6139	95+4.	.7290	.3029 3790 2564 1318 0917	.866		. 1073	ት ት ት ህ
D D		=	1 YORBITER	. 0000	1.383	1.3253	.6520	.1848 .2042 .2338 1396 .0883 0883 0312	. 11.8	1)CABITER	1.3123	
UAIE 10 PEB		ALPHA (5)	SECTION (X/LB	14. 000 000 000 000 000 000 000 000 000 0	180.000	81/X	PH1 - 690 70.000 95.000 105.000 135.000 155.000 165.000	ALPHA (51	SECTION (FH1 PH1 = 030 = 030	#6.630 #5.630 #6.935 6.935 6.935

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AMES 11-07310A1481 -140A/B/C/R ORB FUSELAGE

(XE8839)

5740 .4970 -. 0557 - 0441 .3780 -. 1848 -. 1936 -.2174 .3010 -. 3312 -.4043 -. 3446 . 0 0 0 0 -.5940 -.5456 -.5197 -.1489 .2040 -.4545 -.5621 1.0460 .1770 .4322 1.0180 .6099 .9990 . 1660 .6630 .7627 .7876 . 0703 . 0249 - . 3345 - . 2935 - . 3484 .7589 .9600 DEPENDENT VARIABLE CP .1120 .0975 . 11¥ .9210 .0700 . 0612 . 1046 .8790 .0460 .2301 .2595 .8210 .2257 .2257 -.1841 -.1458 -.1607 .1907 .3515 .2909 .0230 .2700 .7790 0734 0734 1288 0744 0564 BETA SECTION (1) ORBITER FUSELAGE .0080 .414e .7290 rrrs. -.3594 -. 1088 -.0387 -.0470 11.866 . 0000 1.3123 .6520 -.0333 -.0352 -.0516 ..0+39 ALPHA (5) = PH1 140.000 150.000 151.000 162.000 165.000 169.000 174.000 40.000 70.000 90.000 105.000 110.000 135.000 155.000 165.000 X/LB X/LB Ŧ

(XE8B40) (05 AUG 75)	PARAMETRIC DATA	RUDDER * 10.000 SFDBRK * 85.000 BOFLAP * 16.300 L-ELVN * 10.000 R-ELVN * 10.000 MACH * 1.100	I	•	0.05. 0.05. 0.05. 0.05. 0.05. 0.05.	0845142413011002 -	504 2370 1981 157 1484 0481	55 - 4019 - 1727 - 0863 - 0101 317 - 3543 - 3244 - 0967 - 0148 83 - 2874 - 5412 - 1179 - 613	519332841687	.394203281819670397	44.182327 - 7338n		·
JOELAGE			= 601.11		. 1770	- 0598	250+	0155 0817 0183	0270 2898 .5466	4439	5643	1.0180 1.0450	
TOWNEYOUR BYENDELAGE			ø	ı	. 1660	0182 0578	1578	. 1216 . 1541 . 3994	. 8328	. 8859	.8164	.9990	
D / WOL 1			1.1017	BLECP	. 1580					!	4 <i>LL</i> 6	.9600	- 1426 - 2952 - 3203 - 1781 - 1514 - 0704 - 0905 - 3603
		868 848	MACH	INT VARIABLE	.1120	0456	0675 . 0955	8747. 8285. 8784.	.5792		.5762	.9210	2948 1903 1002 0878 1139 0551 . 0879 . 1635
		.0000 IN.	.842	DEPENDENT	.0700	.0135	1864	.3538 .4663	.5466		.5367	.8790	- 2416 - 2449 - 0833 - 0480 0374 1017 - 0077 - 3251
		# 1076 # 375	E C		.0460	. 0802 . 0535	.0866 .2748	. 5915 . 4720 . 6070	.6451		.6167	.8210	-, 1462 -, 1396 -, 3550 -, 3548 -, 3645 -, 4355 -, 5470 -, 5235
	۲ -	XMRP YMRP ZYRP	BETA (1)	AGE	. 0230	.1347	. 5148 . 5148	.7030	.7802		.7251	.7790	0679 0773 821 -3187 -3187 -4809 -5303 -5303 -5303 -5303
	ייביארני היי	SO.FT.	-3.999 6	ER FUSEL	. 0080	.5553		.8817			.9726	.7290	0222 . 0598 . 1261 . 2242 . 2935
		2690.0000 474.E000 936.0c.90	n	SECTION (1) ORBITER FUSELAGE	.0000	1.3179					1.3179	.6520	. 1505 . 1355 . 1355 . 1539 . 1505 . 1568 . 1756
		LAEF = SCALE = SCALE =	ALPHA (1)	SECTION	X/LB	20.000 20.000	55.000	90.000 170.000 140.000	150.030 151.000 162.000	165.000 169.000 174.000	180.000	X/LB	PAI 40.000 70.000 90.000 105.000 110.000 155.000 165.000 165.000

S. Contraction

-. 0385 . D239

書品・ -.0907

133 -. 1426

-.0894

5710.-5010.-

-.1156 -.1223 -.2134

-. 3041 -. 4663 -. 6943

-.5230 -.5038 -.4842

-. 1889 -. 1410

-. 1629

-.0412 -.0684 -.1393 -.1478 -.3002

-.0156 -.0145 -.0528 -.0392 .0037 .0042

.0534 .0238 .0287 .1032 .1150

.0212 .0161 .0009 .0679 .1292 .1899

0835 0688 0613 1304 1797 2366 4022

.1337 .2394 .3369 .4094 .4755 .4755

20.000 55.000 70.000 70.000 120.000

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1.3063

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

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AMES 11-073102148) -140A/B/C/R ORB FUSELAGE

4.277

BETA (3) =

-3.995

A. PHA (1) =

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SECTION !		11 ORBITER FUSELAGE	IGE		DEPENDENT	IT VARIABLE	LE CP									
۲Β,	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	0.4970	5740	
PHI 140.000 150.000			.6677	.5598	1454.	.4785		.6748	.3547	4684	528	2665	2842	0355		
.62 C00 165.000 169.000								.8149	. 1561	4237	5475	2304	2550	0339		
180.000	1.3063	.9453	.7326	.6176	.5381	.5759	25 25 25 25 25 25 25 25 25 25 25 25 25 2	.8382		5719	4206	2295	2174	0422		
/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460						
## 140 .000 140 .000 100 .000 100 .000 100 .000	.0633 .0458 .1551	0219 .1715 .1743	0762 0703 2211 -2750 -3245	1567 1463 2862 2958	- 2478 - 2548 - 0081 - 0604	2994 2187 1725 1980	1496 3365 3948 2854 2939	0 0 0 0	.2873 .2112	. 2232 . 1319						
85.630 66	.1845 .1778 .1854	. 2936 . 2936	.3533 .4392 .4667 .4749	. 1486 . 4979 . 6143	2820 1658 0536 1438	- 3001 - 2042 - 1546 - 0754	3374 0435 .0980 4360	3670							,	
PHA (2)		015 BE	BETA (1)	" Ki	867 MA	MACH =	1.1001.1	σ	• 600	600.009	•	708.37	FRAT	•	3.1860	
SECTION (110RB1TER	R FUSELAGE	gę.	7	DEPENDENT	T VARIABLE	LE CP									
1.8	. 0000	. 0090	.0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	.2510	.3010	.3780	0/64°	3740	
PHI . 300 20. 000 40. 000	1.3271	.6897	. 4655 4655 4655 4655	. 1677 . 1649 . 2:51	.0745	.0251		. 0234 0330 6265		0070 0443 1109	0365	0825 1195	0988	1053	0356	
		.8533	. 165. 165. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	.4243 .4243 .4761 .5475	.4356 .4356 .4356	. 19:5 . 2775 . 3:69 . 4664		1647 1647 1958 189		.0384 0237 0143	3833 3498 2924	1395 2321 5468	1365 1610 1863	0509 0509 0861		
1000 1000 1000 1000 1000 1000 1000 100			.6760	.5420	¥163.	.5057		.8098		3500	6109	4141	1816	0557		
100000 100000 100000 100000 100000 100000 100000 100000 100000 100							.9393	.8525	. 565 565 565 565 565 565 565 565 565 565	4911	4932	3801	T.5	· 图·		

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				Ą	AMES 11-07	11-073(0A14B)	-140A/B/C/R	848	FUSELAGE	i.i		330	(XEBB40)		}
ALPHA (2	2) =	.015	BETA (-3.867								,		
SECTION	(1) ORB11ER	TER FUSELAGE	LAGE		DEFEND	DEFENDENT VARIABLE	ABLE CP								
X /18	. 0000	. 9090	. 0230	.0460	0070.	.1120	.1580	. 1660	.1770	.2040	500	20105			
PH1 180.000	1.3271	.8512	.6063	.5161	8044.	.5005		7746		•	96.6	•			7 7 7
X/LB	.6520	1290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1,0450				7	
PH1 .000 70.000 90.000 100.000	. 0898 . 1355 . 0329 . 0634	. 1460 - 1460 - 1460	.0175 .0279 .0513 .1565	0624 0485 .2651 .2705	1476 1665 .0414 .0086	1689 0893 1232 1306	0678 2668 3547 2337		.3514	. 2462 . 1852					
123.000 135.000 143.000 145.000	.0927 .0376 .0396 .0396	.0197 .1757	.3837 .4481 .4456 .4250	. 2928 . 4264 . 4056 . 7524	1434 1041 0117 555	1609 0588 .0095		4425 2896 2896							
ALPHA (2)		.018 BE	BETA (2)		. 181	MACH .	1.1001	ø	•	600.08	٩	- 708.37			3,1860
SECTION :	: 130RBITER	TER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	. 0000	.0080	. 0230	.046A	.0700	.1120	. 1580	.1660	1770	.2040	8.00	.3010	3780	0.65	To the
PH1 20.000	1.3335	.6913	.2617	.1656	.0799 .0488	.0155		.0336		.0083	0333	0876	0827	1023	0301
1000 1000 1000 1000 1000 1000 1000 100				. 1932	. 1932	.0643		0013		0725	0944	1195	0834	1992	0077
189.63 189.63 180.63		.7225	100 100 100 100 100 100 100 100 100 100	2505 3505 3505 3505	4. 48. 48. 48. 48. 48. 48. 48. 48. 48. 4	. 3905		.1030		0276 1294 1339	4400 4275 3864	2182 3170 6072	1851 1797 1535	GED1 0517 0448	
130,000 151,000			.6326	.5170	±01±.	.4775		.7353		2192 4832	5791	3857	2054	0270	
165,000 174,000							60	.8275	5046	4976	5198	2974	2427	0239	
e,	1.3335	. 9 62	.6199	1212	SC+4.	.5085	9696	.8086	-	5588	6155	2757	03	0278	
.n .∕×	.6520	. 7293	.7790	.6210	.6750	.9210	.9600	0656	1.0183	1.0460					
PH1 .009 45.060	1550. 1567.	.0435	.0015	0776 0582	1604	1753	0147		.3856	.2656 .1531					

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(XE8840)						37 RN/L		3780	- 960 -	0997	- 2096	2852 -	0775	2433			
X						= 708.37		.3010	0922	1297	2825	ı	2951	3001			
						<u>a</u> .		.2510	0397	0874	4831	5900	6155	5051			
ш			1.0460			600.08		.2040	. 0095 8000	0418	0794 2167	4588	8+05.=	6122	1.0460	. 1260	
ORB FUSELAGE			1.0180					.1770				Š	. 4248 . 4248		1.0180	.3427	
C/R ORB			0666.		3147	o		.1660	.0211	0279	.0487 .0539	.6550	9777.	.7952	.9990		5140 3984
-140A/B/C/R		ABLE CP	.9600	3666 2524 2731	2730 1486 .0793 3990	1.1001	BLE CP	.1580					ģ	n D	0096	0621 2425 4113 2974	3852
-073(0A148)		INT VARIABLE	.9210	1517 1503 2053	2303 1436 0952 0322	MACH ==	NT VARIABLE	.1120	נו פרי	.0592	1464	.4276		.5000	.9210	2007 1276 1972 2160	3461 2578 - 2047
	181	DEPENDENT	.8790	.0038 0436 1269	1741 1009 0266 .1877	.250	DEPENDENT	.0700	.0784	.0545	1355 1557 1587 1895	.3700		.4366	.8790	1620 :588 0473 1169	2864 1958 1958
	ت ش		.8210	.2400 .2214 .5015	.2095 .4129 .4538 .5411	t = t		.0460	1771	1548	2615 2615 9629 9629	.4722		.5139	.8210	0579 0508 -2065 1929	
	_	AGE	.7790	. 1322 . 2087 . 2837	3405 3797 4055 4132	BETA (3	AGE	.0230	2475 2473	3936	.4319 .47;7 .5336	.5749		.6143	.7796	.0141 .0243 .1146 .1683	3675.
	.018 810	1) ORBITER FUSELAGE	. 7290	1446	.1893	012 8	ER FUSELAGE	.0090	.6740		.5727			.8218	.7290	.0573 1014 0105	.1139
i			.6520	. 0529 . 0522	.0954 .0958 .0959	#	1) ORBITER	.0000	1.3172					1.3172	.6520	.1006 .0322 .0422	.1016 .1094
	ALPHA (2)	SECTION (X/LB	70.000 90.000 105.000	125.00 135.00 150.00 165.00 180.00	ALPHA (2)	SECTION :	X/L8	FH1 .000 20.000	40.000 55.000	73.990 90.000 120.000	2000 1800 1800 1800 1800 1800 1800 1800	000 - 631 000 - 631 000 - 631	180.000	X/LB	# 00000 000000 000000000000000000000000	ດຄອດ

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				3,1848		574	•	941	.00																
				-		.4 9 70) ;	0582	054B		1.104	- 1660	0827		0674	0556									
				EN/L		.3780		0299	0070	:	000	3049	2077		2205	24.17									
				708.14		.3010		0316	0389		1304		1.4921		- w#87	3518				•					
				•		.2510		.0153	0163		5267 - 7402	3137	6730		. 5986	5810									
		1.0460		600.31		.2040		.0455	.0101				0864 3269		- 5488 - 5488	6545	1.0460		.2919	.2007					
		1.0180		• 600		.1770						·		.5040 .5338	·	•	1.0180		.4427	.4131					
		3666		O		. 1660		.0915	3150	.178	7529	4198	.7876		-8182	.7324	0886.					.4893	3677		
	BLE CP	0096	4240	1.1005	XE CP	.1580									8	9860.	.9600		.0565	2365	2741 2741	n O	_	- 1540	4109
	DEPENDENT VARIABLE	.9210	1301	MACH =	DEPENDENT VARIABLE	.1120		2460	1576	5.0% 5.0%	3243	.4189	.4382			.4328	.9210			6200			•	0693	•
4.250	DEPENDE	.8790	.1113	-3.865 M	DEPENDEN	.0700		1709	.2173	32.48 4478	. 1. 1.	. 3699	.3491			.3453	.8790				- 0408 - 0408 - 1			. 0797	
		.8210	.4609			.0460		. 2634 2734	.3317	1 2 2	.4583	.4710	.4385			.4125	.8210				1469		. 1502		.3845
BETA (3)	NGE	.7790	.3970 .4102	BETA (1)	GE	. 0230		.3835	.5718	.6564	.6664	.6308	.5638			.4852	.7790		1272	21.470	0759	•	-27% -	3075	31.35
012 BE	110PBITER FUSELAGE	. 7290	.2130		1) ORBITER FUSELAGE	.0080		.8231			.8285					华17.	.7230		.1687	765			0889	.1076	. 1405
9	1 1 0 P.B. T.E	.6520	.1006	= 3.919	1) ORBITE	.0000		1.3196								1.3196	.6520		1588	- 0508	0245		. 0658	.0411 0630	.0702
ALPHA (2)	SECTION (X/LB	PHI 165.000 180.000	ALPHA (3)	SECTION (X/LB	H	.000 20.000	40.000	70.000	30.000	1.0.000 1.0.000	150.000	162.000	169.000	190.000	X/LS	Ī	000			1:0.00	135.000	153.330	180.000

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502		3.1848		5740					3.1848		046. - 0401
PAGE		RN/L -		4970	0554 0752 1014 0884 0461	0400	•		•		0922 0988 0922 0935 0636
	840)			.3780	0266 0266 2039 2521 2171	2287			RN/L		
	(XE8840	- 708.14		.3010	0304 0528 2122 2600 4636	3511			708.14		.3010 0291 2823 3340 6445
		Q.		.2510	.0170 0191 3837 4108 3820	5737		,	•		.2510 .0050 .0511 .4700 .4700
		600.31		.2040	.0303 .03103 .02833 .02832 .1145 .1145 .1145 .1145 .1145 .1145	5516	1.0460	. 1758	600.31		.2040 .0483 .0269 .0187 0271 1414
٠ ټ	FUSELAGE	. 60		.1770		. 4786 . 4786	1.0180	.3718	• 600		2
AMES 11-073-1	9,8	o		. 1660	.1044 .1055 .1325 .1325 .1389 .1623 .3432	.7912 .7718	.9990	5100 1034	Ö		. 1660 . 0970 . 1034 . 0937 . 1071 . 1071
_	-140A/B/C/R	1.1005	BLE CP	.1580		.8818	.9600		1.1005	LE CP	
A - 0A148	-073(0A148)	MACH #	NT VARIABLE	.1120	.0685 .1390 .1924 .2233 .2521 .3701	****	.9210	0692 0199 1895 2598 2780 1976 1452	MACH #		. 3090 . 3090 . 3090 . 3090
PRESSURE DATA	=	.176 M	DCPENDENT	.0700	.1683 .1402 .1829 .2338 .2374 .2374 .2916 .2925	1458.	.8790		.244 ma	DEPENDENT	1618 1616 1616 1798 1786 1786
	AMES	- (2		.0460	. 3592 . 3562 . 3389 . 3389 . 3369 . 3546 . 3997	.4159	.8210	. 0367 . 0487 . 1382 . 1190 . 0995 . 3769 . 4856	÷ H		28.5 28.5 28.5 28.5 4.1 28.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6
TABULATED		BETA (2	AGE	.0230	8495 5684 6685 6684 6685 6684 6684 6684 668	. 5051	.7790	.1223 .1358 .1358 .0245 .1687 .2649 .2749 .3075 .3075	BETA (3)	GE GE	376. 3776. 3776. 3778. 5878. 18378
		3.917 B	110RBITER FUSELAGE	.0080	.8251	.7076	.7290	. 1506 2492 1766 0376 0598	38 ' ~26	R FUSELAGE	. 5380 . 5380
B 76		n		.0000	1.3265	1.3265	.6520		3.9	1 1 OPB 1 TER	
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PHI	68.000 168.000 169.000 174.000	X/LB	00000000000000	ALPHA (3)	SECTION (H 25.03.05.05.05.05.05.05.05.05.05.05.05.05.05.

603				5740							3.1834		573	.0166	.0511			
PAGE				.4970	.0311	.039₩	.0200						M970	.0090	.0055	2260 1953 2650	1061	0825
	ê			.3780	2259 -	2557 -	2521 -				FAVIL		3780	.0410	.0642	1327 2031 5636	- 5252	2361
	(XE8840)			.3010	3821	3505	3593				35.TOT		.3010	.0362	. 0382	1183 1677 5147	5877	5076
				.2510	6413	-,6555	5712				# @.		<u>8</u>	.0660	.0688	2749 3167 3321	7306	6798
				.2040	3814 5884	5615	6704	1.0460	. 2923 . 1493		600.67		.20 . 0	1401.	1351	. 0067 . 0067	0857 2409	6033
-	FUSELAGE			.1770	.3331	. 4022		1.0180	.3316		2 009		orri.					5069
11-073-1	9RB			. 1660	.6382	0747.	.7580	.9990	# 80 80 80	+ 352	ø		.1650	1396	1775	2200 2200 27.73 167	3177.	.7892
(AMES	-140A/B/C/R		LE CP	.1580			. 8359	.9600	0588 1676 4361 3143	4274 3374 3276 4293	1.1015	LE CP	. 1583					9098
- 0A14B			T VARIABLE	.1120	.3816		.4316	.9210	0728 0500 2198 2454 3191	3810 2986 2623 1726	MACH =	IT VARIABLE	.1123	!	. 1565 24.38	.3024 .3024 .3156	.3667	
URE DATA	11-073(0A148)	.244	DEPENDENT	.0700	.2847		.3373	.8790	0761 0754 0929 1511	2975 2406 1450	-3.860 MA	DEPENDENT	60.00	2615	.3195 .3195	. 338 . 3338 . 3252 . 5886 . 6886	90ca.	
ED PRESSURE	AMES	± H		.0460	Cide.		.4109	.8210	.0387 .0387 .0936	.0069 .2760 .2841			55.	.3648	.3779	.4710 .4496 .4331 .3959	.3303	
TABULATED		BETA (3)	ge Ge	.0230	£+8+.		.5012	. 779ŋ	.1169 .1305 1363 .0267	.1888 .28°6 .3156 .3122	BETA (1)	36	.2233	\$115°.	. 554 5 . 6666	. 6889 . 6593 . 6291 . 5512	1544.	
			R FUSELA	.0080			.6839	.7290	.1596 2219 1382	.1391		110FBITER FUSELAGE	(i)	1546.		.7805	,	
9		= 3.924	110RBITER FUSELAGE	.0000			1.3111	.6520	. 1568 . 1681 0458 . 0007	.0634 .0787 .0891	a 7.901	1.0FB1TE		1.2870				
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 140.000 150.000	165.000	174.000	X/LB	PH1 -000 -00.000 -70.000 -90.000 -105.000	110.000 135.000 150.000 165.000	ALPHA (4)	SECTION (m ×	PH1 .000	20.000 40.000	55.888 76.888 99.888	140.030 156.030	151.050 165.000 165.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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BETA (1)

7.901

ALPHA (4)

.57+0 0203 0326 .4970 -.2110 .4970 -.0586 -.0101 -.0483 -.0735 -.0379 K K K -. 1973 -.2654 -.3616 -.2123 .3780 .0299 -.2053 .0354 -.2129 -.2025 55.707 .3010 .3010 -.2048 -.2423 -.5740 -.3957 .0392 .0125 -.4038 -.3812 -.5311 .2510 -.6345 -.3240 -.3754 -.3990 .0728 .0523 -.6272 -.7090 -.7321 .2040 1.0460 -. 7044 3260 .2040 1136 1039 1167 0922 -0681 -0902 -2039 -.7328 3256 -.5998 1.0460 600.67 .1770 1.0180 5227 4563 .1770 0180 4169 5233 .9990 .1660 .6964 -.4783 .1660 0666 1455 1436 1639 1556 1610 1867 3556 7449 6890 7281 .1580 .9600 -.3011 -.2474 -.2382 -.4380 .9600 1.1015 . 1580 -.0262 .8224 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .9210 .0429. 0479 .3703 .1616 .2084 .2159 .2315 .2496 .3387 92.00 .1120 .3773 3606 .181 MACH .0700 .2417 .8790 .0340 -. 1847 -. 6929 . 1527 .0700 .1118 . 2450 -.2188 2610 2350 2737 2681 2253 2235 2235 .8790 .0460 .3188 3426 .8210 .0998 .1160 .0075 .0161 .4859 8210 .1149 .0460 3696 3670 3700 3397 3390 3196 3229 3067 BETA (2) .0230 .2208 -.3978 -.2871 -.2871 .3677 .7790 .1714 .1563 .1733 .2270 .2009 .0230 5730 5730 5730 5730 5405 5228 4815 4200 .7790 3820 SECTION (1) ORBITER FUSELAGE SECTION (110RBITER FUSELAGE .0080 -.3190 -.2538 .7290 .2498 -.0527 .0047 .0080 .5777 6376 7645. -. 1814 9+19 5614 .7290 7.905 1.2870 .0000 .6520 .0000 -.1653 25.45 1.2919 .2919 ALPHA (4) PH1 180.000 40.000 90.000 90.000 110.000 120.000 120.000 120.000 160.000 160.000 160.000 20.020 25.000 25.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 X/LB Ī

DATE 10 FEB 76	Б		TABULA	TED PRES	BULATED PRESSURE DATA	'A - 0A14	- 0A148 (AMES 11-073-1	11-073-					i	PAGE
				Aric	AFES 11-073(0A148)	10A14B)	-140A/B/C/R		ORB FUSELAGE			(XE	(XEBB4D)	
ALPHA (4)	p	7.905 8	BE1A (2)		.181									
SECTION (POPRITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	WELE CP							
	655.19	.7290	.7790	.8210	.8790	.9210	.9600	ე666.	1.0180	1.0460				
PH1 70.000 90.000 05.000	11.58	3420 2284	3932 1915 0139	. 0036 - 0540	0975 1796 2547	2040 2390 3089	4059 2854 3540	e e e e e e e e e e e e e e e e e e e			•			
135.000 135.000 135.000 135.000 100.000	0402 0508 0508 0708	0407	.1290 .1703 .2330 .2654 .3626	. 5396 . 5279 . 5396	2701 1742 1101 .0875	3325 2569 2149 1539	3667 3101 2759 4432	4293 4293						
ALPHA (4)	= 7.9	. 904 B	BETA (3)	ø	4.239 M	MACH #	1.1015	o	± 600	600.67	<u> </u>	- 707.22	P RN/L	ب
SECT ON (110A31TER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP							
	. 0000	.0080	. 0230	.0460	.0700	.1120	. 1580	.1660	.1770	.2040	.2510	.3010	.3780	0.4970
PH1 . C00	1.75.1	.9323	.5013	.3671	. 2528			.1453		.1123	. 0665	.0361	.0391	.0019
200			1/84.	3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	2137	. 1627		1555		. 0743 2443 2443	.0195	0217	0132	0382
90.620 120.630		6064.	4554. 4230. 4102	6000 6000 6000 6000 6000 6000 6000 600	. 1368 . 1368 . 1590 . 1540	. 1953 . 1953 . 2995		. 1123 . 1321 . 2821		.0803 0803	3658 4314 4633	2772 3116 6268	2668 3236 2506	1839 1439 0942
000 000 000 000			.3841	5762.	189	.3363		.6165	7050	3158	7289	4413	1961	0464
55.000 55.000 50.000								.7136	3788	6077	6702	3906	1999	0450
000. 000.	1.775.1	.5364	3789	. 3229	.2311	.3665	1967	.7193		7202	6330	4017	2239	0584
	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460				
PH1 - 980 - 70-000 - 70-000	. 2370 . 2541 0853	.3156 3156	. 1957 . 2141 3374	. 0921 . 007 . 575 . 575	.0168 .0422 1531	.0356	0464 1265 4252		.5194 3699	.3233 .1674				
ម្រាស់ មាន	•	2034	123: .0297	0183	2936	2883	3564 4087	Entet		,				
រូពន របន់	. 3483	0786	1086	0421 2080	. 3389	3969	5090	4720						
100	. 0965	0026	2009	1000	- 1905	3165	3731							

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				AMES		11-07310A148)	-140A/B/C/R	g B	FUSELAGE			(XEBB+0)	3+0°		
ALPHA (4)		7.904 E	BETA (3	3) # 4	4.239										
SECTION (110RBITER FUSELAGE	AGE.		DEPENDE	DEPENDENT VARIABLE	BLE CP		•						
X/LB	.6520	. 7290	0677.	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
PHI 165.000 180.000	.0918 .0617	.0068	.2782 .2599	.4858	.0146	2503	-, 4562								
ALPHA (5)	u	906.11	BETA (1)	#	3.844 M	MACH =	1.0995	o	= 600	500.08	۵	709.07	RW/L		3,1837
SECTION (110RB1TER	TER FUSELAGE	AGE		DEPENDENT	UT VARIABLE	BLE CP								
X/LB	. 0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.8510	.3010	.3780	0764	.5740
PH!		:) :	• •
20.030 000.05	1.2323	1.0520	.6335	4679.	.3487	7555		. 2016 8705		. 1858	. 1269	:063	.1155	.0943	.2136
40.000 55.000			.7014	5307	4084	3188		.2513 .8513		2004	. 1 382	.1169	1331	. :950	. 2 ⁴ 56
70.030		7	.6266	. 43E3	3093	.2860		. 2221		. 1559	2335			2351	
100.001			1644.	.2808	1797	. 2928		. 3947		.035	2993 3449	1455 5150	1910	2960	
159.000			.3081	.2143	. 1299	.3051		.7488		0851	-, 7803	3805		:361	
165.000 165.000									¥77.	6545	7336	- 5499	2481	1021	
174.000							8068	.7554							
180.000	1.2323	.4140	.2349	.2178	. 1389	.3096		.6588	•	7463	6859	4278	- 1976	0547	
X/LB	.6520	. 7293	0677.	.8210	.8790	.9210	.9600	9666.	1.0180	1.0460					
PHI 000.	.3247	.3301		. 1820	1593	.0509	8110		6750	20,60					
40.000 40.000	6491 6446	3875	3044 •657	2079			- 3622		.4811	.2078					
105.000)))	•	1.147.1			1718	2559								
100.00	1739	1976	.0505		_	3620	2951	4486 3062			*				
1010	3535	1793	. 0653	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2411	2738	2598 3426								
	51+3. 5792.	0383	. 1550 1550 1550 1550 1550 1550 1550 1550	.5102		1176	4722								

200		3, 1877			F 68	-2025												į	3.183/	9	+161.	. 1859	
PAGE		RN/L		1030	20 G	0770	3204	0937	0457	10255								(•	#0.50	₹60	.0333	3524 2319 :320
	(XE8840)			7.780		÷560.	1968 2615	2427	1965	- 1782	<u> </u>							Š		7.780	.1167	.0536	3770 3308 3498
	CXE	- 709.07		3010	1150	.0768	2003	5918	4433	-, 4058	}							700 63		.3010	Ā I	.0321	2728 2973 6104
		O.		2510	.1353	. 0988	2856	7719	6695	7327								•		.2510	.1347	9640.	3300 4053 4643
	1at	80.009		.2040	. 1892	\$7.1 \$7.0 \$0.0	. 1096 . 1096 . 0446	1878	6356	7604	1.0460	3	.3490					600.08		.2040	.1768	1199	. 0691 - 0137 - 1442
<u> </u>	FUSELAGE	⊙		.1770					.4048 .4279		1.0180		.5753					• 600		.1770			•
S 11-073-1	/C/R ORB	ø		. 1650	3802.	. 2093 - 273-	. 1655. . 1954 . 3563	.6752	.7056	.6877	.9990				4657			0		. 1660	. 2027	1712	. 1130 . 1453 . 3045
48 (AMES	-140A/B/C/R	1.0995	ABLE CP	.1580						.7720	.9600		0041	3375 2437 3273	3892	3578	4709	1.0395	LE CP	.1580			
TA - 0A148	11-073(0A148)	MACH .	ENT VARIABLE	.1120		. 2573 . 2573	.2279 .2979	.3137		.3252	.9210		.0797	2395 3019 3722	4027	3070 2821	1.91	MACH .	I VARIABLE	.1120	. 2255	. 1856 . 0963	. 1474 . 184: . 2692
	AMES 11-07.	188	DEPENDENT	.0700	3544	3+83	. 2094 . 868 . 359	.1230		. 1395	.879u		.1715 7 <u>5</u> 71.	1952 2139 4549	3172	1845 1845	0000	.250 MA	DEPENDENT	.0793	.3432	.2780 .1539	.1116 .0993 .0920
ABULATED PRE	Ā	£) #		. 0450	.458	3787 3784	.3226 .2909 .2362	. 2259		.2019	.8210		. 1999	1850 0913 .0063	.0911	. 5551 15551	.5635	<i>3</i>		. 0460	.4637	.382 3 .2620	.2005 .1850 .1850
		BETA (LAGE	.0230	·	.5557	.5128 .4708 .3898	.3015		.2616	.7790		3133	3322 3322 1345	9770.	. 1617 7.817	.2631	DETA (3)	4GE	. 3230	.5973	# # # # # # # # # # # # # # # # # # #	. 3336 . 3336
		6 0	TER FUSEL	. 0080	1.0553		.5711			±1 [±.	.7290		•	3041	1342	0937	0238	.855 00	TER FUSELA	.0093	±1 ±0 · 1		erich.
?		=	1 1 ORBITER	. 0000	1.2390					1.2390	.6520		. 3262 . 3453 . 453		0440	7447	.0953	# 11.E	110-9116	0000.	1.2259		
•		A.FHA (5)	SECTION	X/LB	PH1 .000 20.000	40.033 55.000	2883	150.000	165.300 165.300 169.300	180,000	x/L9	i i d	*0.000 *0.000	93.000 105.000 115.000		150,020	180.000	ALPHA (5)	SECTION (X/LB	P#! .033 .033	. c> c	

PAGE 608				0.4970 .5740	561	+53	280		
a					0561	0+53	0580		
	(XEBB40)			.3780	1916	1733	1997		
	CXE			.3010	1.4941	4147	4302		
				.2510	7772	6967	6782		
				.2040	2915 5926	6469	7616	1.0460	. 1814
	FUSELAGE			.1770	.3238	. 3645		1.0180	.4200 .4200
TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE			. 1660	.6000	.6866	.6892	0666.	-,515 5 -,5172
B (AMES	-140A/B/		BLE CP	.1580		; ; ;	. 7599	.9600	0256 0901 3573 3033 4195 6080 4021 3948
TA - 0414	\$(0A14B)		DEPENDENT VARIABLE CP	.1120	.2974		.3162	.9210	.0646 .0803 3053 3175 4252 5119 3548
SURE DAT	5 11-07	4.250	DEPENDE	.0700	. 1064		. 1396	.8793	.1624 .1584 .2255 3501 526 3738 2625
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TABUL		BETA (3)	AGE	.0230	.2794		.2749	.7790	. 29168 - 29166 - 29166 - 23333 - 10201 - 10311 - 24168 - 24168 - 24168 - 24168 - 24168 - 24168 - 24168
		11.855 8	ER FUSEL	.0080			.3814	.7290	.3335 4062 2916 1039 0351
FEB 76			1)05911	. 0000			1.2259	.6520	. 34.77 - 10.77 - 10.45 - 0.45 - 0.43 - 0.83 - 0.83
DATE 10 FE		ALPHA (5) =	SECTION (1) CRBITER FUSELAGE	X/LB	PH1 140.000 150.000 151.000		180.000	X/LB	######################################

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AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

DATE 10 FEB 76

PARAMETRIC DATA

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4.PHA (1) .

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ORB FUSELAGE	. 59¢		.1770					7866	3151		1.0180	.3334		= 599.67		.1770		•	• • •
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AMES 11-073(0A148)	. 189	DEPENDENT	.0700	1736	2036	. 0285 20-65 3460	. 2224	3,55		.3976	.8793	1671 1464 1929 2699 3859		.274 MA	DEPENDENT	.0700	1.1791		0622 0092
AME	"		.0460	0969	- 1089	. 1086	9459	458B		7574.	.8210	3034 2963 1143 .1309		t u		09+0			. 2005. 8.00. 8.00. 8.00. 8.00.
	BETA (2)	AGE	. 0230	0675		34.46. 34.46. 34.46. 34.46.	.5312	.5973		.5922	.7790	2240 2108 .0398 .1067	. 3353 . 3253 . 3469 . 3460 . 3518	95TA (3)	ы	.0230		0374	. 3028 . 3028 . 4203
	.991 BE	FUSEL	. 0080	.3588		.5843				.8342	.7290	:825 0341 .0195	.0964	.38 256	R FUSELAGE	0800.	.3375		250
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	(XEBB41)			.3010	0391	0103	008⁴				1059.0		.3010	0728	0822	0822 1155 2036	2272	1190
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				.2040	8043	8518	9396	1.0466	. 0944 0018		598.47		.2040	1639	2419 1925	1783 2528 2521	3672 3672	9098
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A - 04148			DEPENDENT VARIABLE	.1120	.3067		.4132	.9210	1657 1730 4142 3864	4311 2408 2024 1815	MACH .	NT VARTABLE	.1120	1608	1198	. 1086 . 1445 . 2986	3454	
PRESSURE DATA	AMES 11-073(0A148)	4.274	DEPENDE	.0700	.2980		.3878	.8790	1694 1405 2785 3530	6180 4331 3003 0877	-3.863 M	DEPENDENT	.0700	0796	0680	. 1649 . 1978 . 2894	.3055	
TED PRES	AME	3) = 4		.0460	2604.		¥69a	.8210	2812 2758 .0642 .0770	.1050 .3844 .5392	1 = -3		.0460	0081	. 1952 . 1952	5672 3215 4030	. 3955	
TABULATED		BETA (3	AGE	. 0230	.512		.5885	.7790	2054 1957 .0066 .0646 .1193	. 1637 . 2633 . 2990 . 3123	BETA (1	AGE	. 0230	. 1392	.4312	.5003 .5420 .5732	.5306	
		-3.99 <i>2</i> B	110RBITER FUSELAGE	. 0090			.8092	.7290	1898 0419 0025	.1207	.052 8	ER FUSELAGE	.0083	.5166		.7169		
a 76		ta .		. 0000			1.1791	.6520	-,1234 -,1540 .0155 .0386	.0494 .0571 .0560	,	1 JOHBI TER	.000	1.2028				
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-1) FUSELAGE		.1770	•	1.0180	.3182		- 596		.1770					.2712 .2712		1.0:80	. 3293
-073- ORB		. 1660	.5873	0666.		2731	ø		.1660	1510	- 1855	1148 1075 0932	.5484	.6456	.6282	0666.	
~ 5		7.E CP . 1580		.9600	0006 0710 1476 571	2132 0948 0644 3386	.89853	LE CP	.1580						5 0.7.	.9600	06047
<i>\$</i>		UT VARIABLE .iled .	.3354	.9210	1563 1570 3343 2855	2385 0908 0226 0102	MACH #	IT VARIABLE	.1120		#111	0577 .0551 .0551	.3111		.3463	.9210	1540 1543
SURE DATA - 0A1	-3.863	DEPENDENT . 0700	.2913	.8790	1457 1110 1392 1884	3374 2299 1285 .1081	.182 M	DEPENDENT	.0700	0788		. 1937 . 1937	.2721		.3024	.8790	:500
TED PRESSURE		.0450	.3619	.8210	1991 1883 .1457 .1775	.3733 .3733 .3:68	#		.0460	•	0112	2411. 8421. 4505.	.7690		.3778	.8210	8141 8004
TABULATED	-	4GE . D23 0	.4582	0677.	7.1227 7.1069 7.0016 0748 1459	.2574 .3220 .3209 .2977	TA (2)	10E	.0230	7679.	. 2527.	1000 1000 1000 1000 1000 1000 1000 100	. 4923		.4753	.7790	1257
	O.	TR FUSELAGE.	7107.	.7290	1932 1932 1195	0033 .0804 .0914	055 867	R FUSELAGE	.0090	.5221		.5717		1	.7059	.7290	0615
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				र्स	AMES 11-07	11-073(04148)	-140A/B/C/R	OR B	FUSELAGE	w		CXEB	()£8841)		<u>;</u>
ALPHA (2)	# 6	. 055	BETA (2	2) =	. 182										
SECTION	(1) ORBITER		FUSELAGE		DEPEND	DEPENDENT VARIABLE	ABLE CP								
K/LB	.6520	1230	0677. 0	.8210	.8790	.9210	.9600	ე 666.	1.0180	1.0460					
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1 PHK (2	n	070	BETA (3		4.253 F	MACH =	.89853	a	•	505 u7	G				
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55.000			. 1565	0160	- 1023	1131		175!		2078	2622	0+82	\$200·	. D232	. DE35
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153.900			.4275	.3204	. 2201	.2558		.4552	Š	7602	9697	1034	7110.	1693	
162,500 165,000 169,000 174,000							į	. 5923	. 1820	8795	8653	0615	9110	. DCB9	
180.000	1.1937	.6762	.4716	.3558	. 2875	.3352	717	6019.	•	-1.0571	8693	0584	92.69	60.00	
r.e	.6520	.7290	.7790	.8210	.8790	.9210	.9500	0666.	1.0180	1.0460			1) }	
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TABULATED PRESSURE DATA - DAIHB (AMES 11-673-1)

(XEBB41) AMES 11-073(04148) -140A/B/C/R GTB FUSE_AGE BETA (3) = .070 ALPHA (2) =

ZX. = 1059.5 .. 30 1.0180 1.0460 = 598.51 DEPENDENT VARIAB -.1588 -.25 -3.868 MAC .8210 .8790 .¥9¥. BETA (1) = .7291 .790 .087. 6780. SECTION (1) ORBITER FUSFLAGE 3.947 .6520 . 0129 . 0020

.5740 .0920 .1133 .4970 .0295 .0205 -.0580 .0705 .0645 -.0267 -.0329 -.0830 .3780 .0177 .0071 -.1478 -.2083 -.3142 .3010 -.0587 -.0371 .2510 -. 1259 -.1656 .2040 1.770 . 1660 DEPENDENT .0700 .0460 . 0230 SECTION (1) ORBITER FUSELAGE .0080 .6610 .0000 1.1947 ALPHA (3) = 20.000 55.000 70.000 70.000 1140.000 1151.000 165.000 165.000 165.000 174.000

-.5747 -.6192 -.6178 -.9136 -.7782 -.912¢ -1.0941 -.9614 1.0180 - 10892 - 10885 - 0885 - 0074 - 0049 - 02450 .9990 .6022 .5398 .6351 .7406 .9600 - 0022 - 0932 - 1362 - 1629 - 2594 .2733 .2643 .9210 .0138 .0008 .0663 .1823 .1906 .1949 .2074 .1977 86,7 .1067 .1126 .1696 .2972 .3163 .2671 .8210 .2931 .2619 .2619 .4170 .4966 .5148 .5241 .4158 .3370 .7790 .6848 5674 .7290 .6520 1.1947

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	(XE8841)	1059.5		.3010	0521	0424	2738	3792	2233	1721			1059.5		.3010	. 0565	1342 - 1635 - 2722
		a.			1212	- 1789		-1.0276	- 9368	9169			•		.2510	1165 -	. 7125 . 7862 . 7723
		598.51		.2040	0990	1314 1591 1974	3064 3839		9751	1.0143	1.0460	. 1156 2255 3275			.2040	1120	
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.5740 .1522 . 1923 **4970** .00020 -.0105 -.1492 .1218 -.0302 -.0171 .1187 .3780 -.0823 -.1010 -.2476 .0538 .0735 -.1306 -. 0890 .3010 -.0149 -.1815 -.2265 -.4882 6444.-.0207 -.4764 -.4764 .2510 -.0540 -.4904 -.6063 -.6477 -.6406 -.6392 -.0641 .2040 - 0246 - 0350 - 0555 - 0535 - 0914 - 1653 - 2555 - 3665 .1770 .2556 .2719 -.0080 -.0089 0390 .0390 .0490 . 1660 .5830 .6021 .1580 .1120 .038 1038 1430 1565 1976 .0700 .1143 .1853 .2349 .1997 .1876 .1191 .0460 .2500 .2504 .2562 .3566 .3118 .2959 .2484 . 1886 .0230 3607 14142 5270 5463 5179 4920 .2983 .0000 .8020 .6353 .0000 1.1506 (])

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PRESSURE DATA	AMES 11-073(0A148) -1	-3.861		.1120	•	.9210	1227 1165 3694 3117	2699 1664 1013	* .181 MACH *	VARIABLE	.1120	1501	1372				1415.	.9210	1275
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5740 £708 1922 .497£ .1902 -.0870 -.0151 -.1387 -.1685 -.4714.-3780 .1033 -.2158 . 1234 -. 1917 1059.0 -.1988 -.2383 -.5430 -.5056 .3010 .0716 .0553 -. 5485 -.5511 .2510 -.4100 -.5237 -.6615 .0349 -.5710 .0200 -.6026 -. 5528 -.8987 -.7148 .2040 .0554 .0536 .0583 .0583 .0148 -01482 -2516 -3785 -3785 1346 .9990 1.0180 1.0460 1.0460 598.63 1.0180 .1770 2390 ₹. 2990 . 1660 0666 0747 0858 1190 0605 0543 0593 1860 5609 -.4377 5590 4550 .89863 .9600 -.2951 -.2164 -.1744 -.3381 .6522 .9600 -. 3274 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.3138 .1120 .1395 .1956 .1566 .1531 .1434 .1452 .9210 -.1158 -.1377 -.4012 -.3737 -.3611 -.2487 -.2041 -.1302 -3.850 NACH .8790 -.2182 .0700 .0278 -.3725 -.3489 -.2390 -.0804 .8790 -.0259 -.0132 -.2647 -.2753 2327 2327 2864 2547 2547 1613 1613 .8210 .3158 .0749 909999 \$12588 .0460 3417 3629 4031 3659 3659 3021 2535 1504 0384 1993 2932 0827 .8210 3310 .7790 . 1068 . 0230 5760 . 2155 . 1492 . 2155 . 1207 -.0023 -.0141 -.0164 1676 .1790 SECTION (1) ORBITER FUSELAGE SECTION 1 110RBITER FUSELAGE .7290 -.0788 .0080 -. 5768 -.2923 -.2269 .9236 .5637 .7290 . 1880 .2561 -. 1324 **•** 11.893 -.1008 .6520 .0000 1.0982 1.0982 .6520 77.77 64.77 64.84 64.84 .3734 ALPHA (5) PH1 165.000 180.000

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ENDENT VARIABLE CP 700 1120 1580 - 700 1120 1580 - 700 1120 1580 - 700 1237 - 700 1405 - 700 1405 - 700 1405 - 700 1405 - 700 1405 - 700 1405 - 700 1405 - 700 1406 - 700 1120 1580 - 700 1120 1120 1120 1120 - 700 1120 1120 1120 1120 1120 1120 1120 1	FEB 76		TABULATED	_	띭	3	_	-073-	•			İ	ı	PAGE	620
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					AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	(0A14B)	-140A/B/	C/R ORB F	-USELAGE			CXE	(XEBBAT)		
ALPHA (5) =		11.981 B	BETA (3)		4.259										
SECTION	SECTION (1) OPBITER FUSELAGE	TER FUSEL	AGE.		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
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174.000 180.000	1.0913	.2198	.1155	.072;	. 0201	.1513	.587	.4836		6633	5957	5416	2026	0161	
X/LB	.6520	.7290	.7790	.8210	.6790	.9210	.9600	0666.	1.0180	1.0460					
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PARAMETRIC DATA	10.000 16.300 10.000	- 2386.3		.3010	0935	1888	.0005 0396 1665		1243	1331			•													
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-		.59622	PLE CP	. 1580					Š	ngac .	.9600	0241 0837 1530 1616 2273	2107 1348 0484 2945													
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	1076.	71		.0450	2103	2157	33+0	.4299		.3475	.8210	- 1662 - 1634 - 1212 - 1718 - 2895	.4711 .4657 .3441													
TA.	XMRP YMRP ZMRP	827A (1)	√ GE	.0230	2140	.0266	5.586 5.866 5.208	.5745		114.	.7790	- 1338 - 1338 - 0313 - 0930	9789. 9789. 9579. 4899.													
PEFERENCE DATA			ER FUSEL	. 0080	.1340		.7406			0707.	.7290	101 6750 9050.	.0545													
PEFE	2690.0000 474.8005 936.0590	8+0.4- E	SECTION (1) OPBITER FUSELAGE	.0000	1.0110					1.0110	.6520		# NN N N CN N	SAEF = 2 LREF = BFEF = SCALE =	ALPHA (1)	SECTION (X/LB	PH1 .000 .20.000	10.000 55.000	70.063 90.000 120.090	150,000 151,000	165.000 165.000 169.000	190.000	X/LB	1, 0,000 1,0	

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	(XE8842)			.3780	05%7 1062 .0138 0082 0222	035/		FRV-L	į	0435 0658 0080
	(XE	- 2386.3		.3010	0760 1313 0381 0770 1942 0888	0001.		2386.3		0700 0909 0677
		0.		50.00	1094 2010 1806 2107 2304 2734	u/8: -		•		1020 1500 2150 2627
	4.4	593.85		.2040	- 1319 - 1649 - 1649 - 1963 - 1963 - 2398 - 2668 - 4053	1.0460	0164 0164	593.85	Š	1326 1469 2745 2730 3550
<u>-</u>	ORB FUSELAGE	1		.1770	. 1617 5401.	1.0180	. 1657 . 1657	- 59	Ē	
AMES 11-073-1		σ		. 1660	1578 2022 2935 1740 1036 5037	. 9990 . 9990	3564 3076	0	99	1539 1764 2415 1932 1715 1883
-	-140A/B/C/R	. 59622	BLE CP	.1580	##69.	.9600		.59622	LE CP	
A - 0A148	11-073(04148)	MACH	INT VARIABLE	.1120	. 2355 - 1359 - 1371 - 1359 - 1359 - 2364 - 3234 - 3234	.9210	1200 1055 1559 1822 2286 0904	MACH =	IT VARIABLE	2080 2134 1693 0570 0540
PRESSURE DATA		842	DEPENDÊNT	.0700	20706. - 19826. - 1982. - 1985. - 1785. - 1785.	.8790	1243 1211 1371 2697 2661 0650 0650	.191 M	DEPENDENT	
	AMES	2) * -3		.0460	- 1818 - 1847 - 1890 - 1397 - 1387 - 3743 - 1122	.8210	1650 1566 .0731 .1114 .1790 .3217 .4256 .4426		eg s	862 738 847 847 854 854 954
TABULATED		BETA (2	AGE	.0230	7.1750 1.0169 1.0169 1.434 1.529 1.5380	.7790	1.1293 0087 0087 	BETA (3)	IGE DP30	
		-3.971 E	TOPBITER FUSELAGE	. 0080	.1.76. 4808.	.7290		. 889	COCO . DOBO	.1841
B 76				. 0300	1.0536 1.0538	.6520	\$420 9340 9320 6210 6210 6210	-3.8	110991TE	1.3615
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	94. 96.000 96.000 96.000 140.000 150.000 162.000 163.000 174.000 183.000 183.000 183.000 183.000 183.000	X/LB	PHI - 000 - 000 - 000 - 000 - 000 - 105 - 000 - 170 - 17	ALPHA (:1	SECTION (PH

PAGE	,			0794.	3110.	.0169	1210.				<i>*</i>		6754.	. 85. 8	- 1840.	.0452 .03:0 .0236	.0154	Ť.
	Æ.			.3780	0254	0228	0223				RNZ		.3780	6473 -	0427 -	0050 0216 0750 -	0527 -	04:6
	(XEBB42)			.3010	0931	0931	0855				= 2386.3		.3010	0722	0667	0836 1213 2946	1073	1083
				.2510	2505	1960	1848				Q.		33.0	1093	1243	2395 2961 3426	2503	2066
	A.A			.2040	3475	9378	-1.1344	1.0460	.0066 0727		593.85		.2040	1382	- 1842	283 9 4328 4420	4265	9424
-	FUSELAGE			0771.	.9376	. 0958		1.0180	. 1405 2041 .		. 593		0771.					
11-073-1	86			. 166¢	7114	.5237	.5125	9990		. 3536	ø		.1660	1593	2054	2284 2657 1861	.2932	.4647
B (AMES	-140A/B/C/R		BLE CP	.1580		đ		.9600	0296 0541 2015 2844	3522 2230 1162 3349	. 59622	RE CP	. 1580					.6128
A - 04148	(0A14B)		NT VARIABLE	.1120	.2750		.3284	9210	1838 1958 1919 7715	3290 1621 1015 1087	MACH =	IT VARIABLE	.1120	1993	2001	1313 1470 . 0249	.2104	
PRESSURE DATA	AMES 11-07310A148)	161.	DEPENDENT	.0700	. 284B		.3218	.8790	. 1245 - 1238 - 1865 - 2362 - 3528	3947 2416 1343 -0147	.273 MJ	DEPENDENT	.0700			1129 0963 .0239	.2209	
ULATED PRES	AME	3) *		.0460	.3747		.3973	.8210	1697 1480 .0182 .0428	. 4865 4867 4867 4866	<i>3</i> *		.0460			0533 0234 .1376	.3142	
TABULA		BETA (3	AGE	. 0230	.4801		.4897	.7790	1215 1200 0572 0130	.1377 .2351 .2612 .2536	BETA (4)	ige ige	. 6230			.1044	.4053	
		-3.888 E	I I CABITER FUSELAGE	0800.			.7216	.7290	0956 0900 0377	.1012	3.593 Bi	TR FUSELAGE	. aasa	.1577		. 2838		
.e. 76				. 0000			1.0615	ישלמ.	0911 1300 0345 059	7110. 6450. 7640.	-3.9	11CHBITER	0000	\$0.1 0.1				
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	140.000 150.000 151.000	. 55.000 169.000	180.009	אירפ	PH1 . 000 70.000 99.000	25.00 20.00	ALPHA (;)	SECTION (x,LB	PH1 .003 20.033	10 00 00 00 00 00 00 00 00 00 00 00 00 0	3000 3000 3000 3000	156.000	5 0

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DATE 10 FEB	B 76		TABULATED	_	PRESSURE DATA	1 - 0AT48	-	AMES 11-073-1	_					35	S.
				AME	AMES 11-073(0A148)		-140A/B/C/R	9 8	FUSELAGE			(XE8842)	42)		
ALPHA (1:	a -3.983		BETA (4)		4.273										
SECTION 1		11 ORBITER FUSELAGE	ğe		DEPENDER	DEPENDENT VARIARE	PLE CP								
x/LB	. 0000	. 0080	.0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	.2510	.3010	.3780	678¥.	57.5°
PH1 180.000	1.0*04	.6949	7.482	.3816	3140	. 7.420		.इ.ध.म.		-1.1190	1934	09ts	0356	7100.	
X/Lb	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
75.000 25.000 25.000 20.000 20.000	0829 1073 0527	0957 1148 0629	1152 08:6 0571	1616 1383 0175 0139	- 1232 - 1207 - 2243 - 2862	1196 1013 2170 2587	+.0268 0528 2233 2513		. 1426 . 1426	0132					
170.000 175.000 175.000 186.000 186.000	0213 0188 .0247 .0245	0261 .059 5	.0391 .1626 .2062 .2141 .2141	.0347 .2923 .4686 .4570	5076 3502 2375 0819	4363 2457 1919 1850	4379 2825 1623 3322	. 4030							
ALPHA (1)	-3.999		BETA (5)		8.343 RJ	MACH .	5965	ø	8	593.85	a .	2386.3	FRA	•	≱.8696
SECTION (110RBITER FUSELAGE	ĬĞE		DEPENDENT	IT VARIABLE	BLE CP								
X/18	0000.	.0080	.0230	.0460	.070	.1120	.1580	. 1663	170	0.02.	. 2510	.3010	.3780	0.45v	ore:
FH1 .000	.9932	.1337	2003	1896	2297			1749		553	- 1252	0947	0667	0513	0677
60.000 40.000			1222	- 2133	2287	1927		1878		1710	1059	0503	0316	034k	9240
25.606 70.000 90.000 120.000		9201.		1370	7885 7885	1015 1015 1015 1015 1015 1015 1015 1015		. 3428 - 3428 - 3398		. 3183 - 4935 - 5365	2524 3192 3935	0922 1271 3460	0133 0306 1131	. 039. 1090. 1090.	
150.000			.2337	.2211	.1182	. 10 6		1501	260%	5146	2691	1476	0967	0553	
162.000 165.000 165.000			·				1	.3734	1728	9847	2397	1464	0872	0523	
180.930	.9333	.6289	.4316	.3321	.2651	3873.	0450	.3933		-1.1457	2307	1262	0772	0-53	
X/LB	.6520	.7290	3677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0450					
PHI . 000 40 . 605	0906 º868	1029	1276	1689	1293	1218 0969	0282		. 2295 . 1181	0120 0988					

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ORB B	
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11-073(04148)	
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BETA (5) =

-3.999

ALPHA (1) =

DATE 10 FEB 76

				4.8734		5740	0119	0426									
					,	0.697.0	0169	0589	5.53	05:8	0585	6542	9.99				
				EN/L		.3780	0450	0695	.0300	0571	0833	e-:03+0	095¥				
				- 2386.1		.3010	0592	0890	0183	2153	1551	:634	1560				
				•		.2510	0970	1483	1328	2256	E+04	2929	2678				
	1.0460			593.61		.2040	1132	2013	. 0323	1718	4585	1.1113	-1.3467	1.0460	.0041		
	1.0190			- 593		.1770					.1878	9461.	•	1.0180	. 1589 . 1589		
	J 6 86.		500 500 500 500 500 500 500 500 500 500	0		. 1660	- 1345	2237 2237	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.77	.5160	1 1	.3636	0666.		i	2768
BLE CP	.9600	2259 2719 3335	5146 3558 2340 3509	.59612	ALE CP	. 1580							.6528	.9600	0154	1471 1863 2231	1904 1495 0717
DEPENDENT VARIABLE	.9210	2366 2841 3537	5425 3530 3123 8894	MACH .	DEPENDENT VARIABLE	.1120	Ġ		1328	. 2850	.2670		2104	.5210	1130	1127 1435 1781	1545 0708 0130
DEPENDE	.8750	2626 3184 +7+3	6667 4996 4024 2214	-7.885 M	DEPENDE	.0730	1371	1243	. 2052 - 176	7282	.2485		. 1878	9518.	1007	0925 1119 1807	. 1314
	.8210	0597 0696 0520	1837 .1325 .+389	.77.		.0460	1116	- 0+05 000 000 000	. 2987 . 2987	. 3588	.3172		. 2 ⁴ 85	.8219	ស្តិត	. 1139 . 3285 . 3285	.+637 .+080 .2516
JOE JOE	.7790	1267 0937 0423	0604 .0570 .0973 .1854	BETA (1)	IGE	. 6230	0612	2510 4705.	. 5036 . 5036	10 m	.4539		. 3239	3677.		0181 .0578 .1035	. 2384 . 2384 . 2282
ORBITER FUSELAGE	.7290	1474 0977	0895 0165	.003 86	R FUSEL!	.0083	.3239		, 20%				3756	cest.	•	1693	0083
	6550	0739	0548 0357 0352	0	1) CRBITER FUSELAGE	. 0838	1.0389						1.0363	.E5.23	\$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50	- in	0962 0433
SECTION	X/LB	7H; 70.000 100.000 100.000	185.080 185.080 185.080 185.080 185.080	ALFEA (2)	SECTION (x/1.8	P#:	2000 2000 2000 2000 2000 2000 2000 200	70.00 0.00 0.00 0.00	100000	150.000	167.980 155.050	100.00 100.00 100.00	XVLB		guai	18 18 18 18 18 18 18 18 18 18 18 18 18 1

					4.8734		.5740		6953	0131															
				•	٠ •		.4970		.00	0300	9350	9020	0199	0274	1	3269	0279								
342)					FRV		.3780		034 F	0412	200	0131	0466	0578	1	0580	0628								
(XEBB42)					2386.1		.30:9		0511	0585				1325	!	1342	1297								
					•		.2510		0776	1060	1777	2121	2631	3499		2610	2345								
			1.0460		593.61		.2040		1058	1627				502.	!	1.0843	-1.3057	1.0460	1000	010+					
FUSEL 4GE			1.0180		. 59		0771.								1142	•	•	1.0180		1836					
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-140A/B/		BLE CP	.9600	2910	.59612	BLE CP	.1580										. 6367	.9600	, 10 -	0568	1690			1868 0968	3113
(0A14B)		DEPENDENT VARIABLE	.9210	.0227	MACH =	DEPENDENT VARIABLE	.1120		1626	- 12	910.	: -:	٠٠/١٥.	.2521			.2326	.9210	1.0	0985	1528	2250	6+22	11 /5	0610
5 11-073	-7.885	DEPENDE	.8790	. 1629	3.860 M	DEPENDE	.0700		1163	1120	הנקר הנקר	1 ±	.2133	.2337			.2152	.8790	1050	1005	1413	2505	2707	1335	.0697
AMC	11 = -7		.8210	.2535			. 0460		0761	N. C. C.	5 to 2	.2377	.3147	. 3069			.2788	.8210	221	1193	. 0605 . 0994	. 1872	3199	3208	.3518
	BETA (1	AGE	£277.	. 1847	BETA (2)	AGE	. C230		0667	1812	7000	.+373	.4672	.4305			.3546	.7796	1789	. 0734	0587 .0107	.0749	9161	ָּהָלְיִהְיִהְיִּהְיִהְיִּהְיִהְיִּהְיִהְיִהְיִּהְיִהְיִהְיִהְיִהְיִּהְיִהְיִּהְיִהְיִהְיִּהְיִּ	.2333
	003 8	ER FUSEL	.7290	.0047	.104 8	11ORBITER FUSELAGE	.0080		1296.			.6022					£165.	.7290	-,0452		14 83 0820		.0061	.0564	.0589
		110FB1T	.6520	0502	#	1.10RB1T	.0000		1.6/36								1.0736	.6520	-,0257		1285 0792		6545	0050	3036 0163
	ALPHA (2)	SECTION (1) OPBITER FUSELAGE	X/LB	PH1 155.000 180.000	ALPHA (2)	SECTION (X/LB	PHI	20.02	40.000 88.000	70.000	90.000	140.000	150.000	162.000	169.000	180.000	X/LB	PH!			105.000	120.000		165. PJ9 180. 030

829		4.8734		.5740		¥.8734		.5740	.0205
PAGE		FR/L -		.4970	. 0063 . 0069 . 0069 . 0158 . 0158	•		.4970	0003 0124 0027 0003
	(XE8842)	_		.3780	0243 0262 0458 0433	1 RR/L		3780	0267 0146 0404 0568
	t XEB	- 2386.		.3010	0491 0399 0872 1121 1205 1150	- 2386.1		.3010	0541 0373 1054 1291 2588
		•		.2510		Q.		.2510	0891 0929 2461 3337
•		593.61		.2040	0978 1087 1745 3508 3568 3568 10753 0039	593.61		.2040	1051 1429 2059 3893 4417
^ -	FUSELAGE	. 59		.1770		9		.1770	
(AMES 11-073-1	gg By	0		. 1660		o		.1660	- 1215 - 1293 - 1746 - 1972 - 2228 - 1504
B (AMES	-140A/B/C/R	. 59612	BLE CP	.1580		1366 3294 -59612	BLE CP	.1580	
A - 0A148	-073(0A14B)	MACH .	NT VARIABLE	.1120		1332 1432 MACH =	NT VARIABLE	.1120	1434 11267 1136 10885 10885 10584
RESSURE DATA	ES 11-073	.19n M	DE! ENDENT	.0700		1880 0302 251 M	DEPENDENT	.0700	1287 1436 1318 0774 0550 0553
£_	AIT	•		.0460	0637 0501 0501 0553 1527 1327 11365 0059 0578 11365	ա <i>Ի</i> ջ		.0460	0764 0781 0307 0307 0382 0382
TABULATED		BETA (3	AGE	. 0230	2005- 2762 2762 2775 31135 31135 3175 3175 3175 3175 3175	.2761 .3140 .2226 .BETA (4	AGE	. 0230	0363 0356 .0497 .1138 .1138 .1919 .2666
		. 114 B	ER FUSELAGE	.0080	.3696 .4441 .2668 .7290 0508 0990	.0741 .0741	ER FUSELAGE	.0080	5242. 4775.
8 76			1) OKBITER	.0000	1.0796 1.0796 .3520 .3520 .936 .936 .9376	. 60+99 . 6009 	DOPPITER	. 3nG	1.0538
DATE 10 FEB		A.PHA (2)	SECT TON 1	x/L9	XX	150,403 165,003 180,000 ALPIN (2)	SECTION :	X/LB	######################################

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) DATE 10 FEB 76

564. -.0370 -.0260 -.0289 .3780 -.0510 -.0599 -.0582 (XE8842) .3010 -. 1296 -.1298 -, 1272 .8510 -.2912 -.2459 -.2378 .2040 -.4799 -1.0860 -.0037 -1.2862 1.0460 3(0A148) -140A/B/C/R ORB FUSELAGE -.1409 .1770 .2532 .1336 1.0180 . 1660 .2639 .4035 9860 .4208 . 1580 .5611 .9600 -.0172 -.0555 -.2231 -.2559 -.3179 ပ္ DEPENDENT VARIABLE . 1120 -.1092 -.0960 -.2173 -.2597 .1510 .2407 .9210 .0700 654. .2152 .8790 -.1081 -.1030 -.2257 -.2974 -.4186 AMES 11-. 4.25 .0460 .2327 . 2693 .8210 -.1391 -.1078 -.0430 -.0418 -.0335 . 0230 .3206 -.0830 -.0699 -.1314 -.0541 .7790 .3671 BETA SECTION (1) ORBITER FUSELAGE . 0083 -.0478 -.1921 .7290 .111 .0000 - 1599 1.0638 .6520 R.PHA (2) P41 140.000 150.000 151.000 162.000 165.000 174.000 180.000 40.000 90.000 90.000 110.000 135.000 185.000 とこの Ĭ.

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Ž 593.61 .59612 DEPENDENT VARIABLE CP # 8.310 MACH .3957 BETA (5) .0414 .1493 .1820 .1863 (11CABITER FUSELAGE . 040 ALPHA (2)

-.2820 -.1850 -.3296

-.3988 -.2591 -.2192 -.2269

-.4892 -.3763 -.2867 -.1393

.0456 .2638 .3727

.0347

-.0123

.0571

-.0535

-.0580

-.0075 -.0099 -.0355 .4970 -.0203 -.0139 -.0468 -.0483 -.0719 3780 -.0397 -.0293 -.1110 -.:987 -.:4781 .3010 -.0715 - 24 -.2616 -.3003 -.3671 93.0 -.0997 -.1107 .2040 - 1205 - 1318 - 1515 - 2279 - 2937 - 4425 - 5304 - 5478 .1770 .1660 -.1365 -.1432 -.2013 -.2013 -.2835 -.2835 . 1580 .1120 .0700 .0460 .0230 -.0553 -.0663 -.0237 -.0117 .0344 .0349 .7599 3140 .0090 1001 0000. 1.0097 SECTION X/LB Ē

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.0210 -.0213

> -.0930 -.0961 -.1500 -. 1607 -.2656 -. 2935 --:--.2338 3214

.1207

.0630

.0565

.1485

4715.

-.0620

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1764.

	(XEBB42)
TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

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ETA (5) - 8.310	AGE DEPENDENT VARIABLE CP	0478. 0784. 0878. 0108. 0185. 0408. 0711. 0331. 0881. 0511. 0070. 0340. 0550.	0570 2101 4875 7115.1- 8555. 8520. 8691. 8555. 8055.		- 139 - 086	086846823574 198253525060 10535151 373944403438	16260868 1.4682357433864199 19410 - 19326352506046873976 1537 - 105351513492 1012290732923461 101229083461 10137.899 MACH = .59674 0 = 594.79 P = 2386.0 RN/L =	062608684682357433864199 04:1019326352506046873976 03:371053518934923492 08:173739444034382618 10:12290732923461 14622958 1 (1) = -7.899 MACH = .59674	06260868 1.4682357433864199 04:1019825352506048873976 05:37 .105351513492 04:10198253613492 05:37 .105351513492 06:50444034382618 10:2290732923461 1462 .2958 10:1 = -7.899 MACH = .59674	062608684682357433864199 04:1019826352506046873976 05:37 .10535144034382618 10:12290732923461 10:12290732923461 10:13 = -7.899 MACH = .59674	062608684682357433864199 04:1019325552506045873976 05:37	0410 - 1982 - 6352 - 5060 - 4687 - 3396	06260868	06260868	06260868
80	DEPENDEN				1087 0973 2667 4682 6352 5135	2907	Z				• •				•
	SELAGE	.0230	.3208	.7790	0838 0694 1102 0626 0410 0410	. 1012 . 1462 . 14 (1)		. 0230	. 1509	. 3613 . 1926 . 5209	. 5216 . +567	•			. 1952
0,0.	SECTION & LIORBITER FUSELAGE	. 0000	1.0097	.6520 .7290	03480514 0322 16642164 11581508 08131007	'	1) ORBITER FUSELAGE	.0000 .0000	1.0304 .4923		.				34E4. 40E0.1
(5)	- NO		PH1 180.000		PH		8		PH1 .000 20.000	46.000 25.000 70.000	90.000 120.000 140.000	150.000 151.000	55.000 55.000	59.000	74.000

TABU	TABULATED PRESSU AMES	PRESSURE DATA - DAI AMES 11-073(0A148)	- 0A14 DA148)		-073 ORB	-1) FUSELAGE			(XEBB42)	(S#6)	PAGE	631
	1) = -7.				Š				•	ì		
		DEPENDENT VARIABLE	T VARIAE	RE CP								
7790	.8210	.8790	.9210	.9600	ე666.	1.0180	1.0460					
.0598 .0135	.1090 .1675 .3282	0845 0993 1560	0991 1372 1694	1364 1805 2229								
. 1239	à.			1805	3508							
	.1182	1855	1076 0512	1583 0535								
1199	1982		UI &	2919								
S		-3.860 масн		.55674	o	- 39t	594.79	•	2386.0	RNAL	•	4.8833
	_	DEPENDENT	VARIABLE	LE CP								
. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
					0679		0550	0465	0207	.0080	.0393	9448
3147	. 0880 . 0880 . 0880		- 000				0709 0815 -	0404	.0087	.0206	.0255	.0642
		1356	078 994		940. 940. 940.		1493	1913	0832	0482	0249	
3911 5		. 1572	.1739		.0706				2837	1204	1057	
3133 .2	2078	. 1415	.1739		.4237	.0479	6025	4162	1726	0847	0624	
				į	.4466	- 55. 	1.2546	3022	1617	0809	0536	
2358 .1	. 1842	. 1252	.1651	B B B	.3282	•	-1.4686	2678	1427	0721	0489	
3. 5677	.8210	.8790	.9210	.9600	0665.	1.0190	1.0460					
0387	. 0913 . 0550 . 1700	0758 0717 139* 1747	0851 0696 1433	.0007 0381 1623		.2030	.0118	•				
	- 0.06				2836 2836							

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833		4.8833		.5740	章 5. C. C. C. C. C. C. C. C. C. C. C. C. C.	4.8833		.5740	.0320
PAGE				.+970	. 04.02 . 04.38 . 04.30 . 04.30 . 04.01 . 04.01	•		. +970	.0001 .0001 .0498 .0356
	75)	RN/L		.3780	. 00042 . 0042 . 00578 . 0530 . 0706	FN/L		.3780	0048 0261 0815 0535
	(XE8B42)	- 2386.0		.3010	0215 0271 1334 1469 1466 1374 1426	- 2386.0		.3010	0372 0642 1461 1449
		۵.		.2510	0454 0771 2579 3397 2675 2631	_		.2510	1848 1848 2962 3592
		67.		.2040		594.79		.2040	0815 1096 1470 2955 5955 5955
-	USELAGE	#66 *		.1770	. 1762 . 1480 . 1516 . 1516	- 59		.:770	
AMES 11-073-1	3/R ORB F	a		. 1660		o		. 1660	0869 1075 1263 1263 2183 2591
_	-140A/B/C/R ORB FUSELAGE	.59674	RE CP	.1580	. 5096 . 9500 . 9500 . 2570 . 3570 . 3570 . 3580 . 1958	.59674	LE CP	. 1580	
A - 0A148		MACH .	UT VARIABLE	.1120		MACH	T VARIABLE	.1120	0983 1083 1399 1238 1354
SSURE DATA	ES 11-073(0A148)	545.	DEPLNDENT	.0700	20402- -059504- -05331- -0504- -0672- -0678- -15252- -1578	8.292 M	DEPENDENT	.0700	- 0616 - 0846 - 0948 - 1114 - 1353
TABULATED PRES	AME	3		.0460	920. 9210. 9210. 9210. 9210. 9213. 9210. 9210. 9210. 9212. 921			.0460	
TABULA		BETA (4	 Joe	.0230	10192 11523 11663 11663 1167 1167 1167 1161 1161 1	BETA (5)	JGE 101	. 0230	1000. 10430. 10830. 10830. 10830. 10830. 10830.
			R FUSELAGE	.0080	.5050 .9057. .01637. .01637. .01010.		P FUSELAGE	.3080	.4818
35		= 3.947	1) ORBITER	.0000	1.0513 1.0513 1.0513 0336 0336 1.1884 1.0462 1.0462	3.985	130991169	. 0550	1666
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PHI - 0000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.0000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.0000 - 50.000 - 50.000 - 50.000 - 50.0000 - 50.0000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.000 - 50.	=	SECTION (e1/x	PHI 20.000 35.000 35.000 30.000 30.000 30.000 30.000

63 4				.5740							.8802		.5740	1019			
PAGE				φ 764.	0640	0758	3910						0,64.	. 1962	0+32 0728 3286	1614	1269
	34.2.)			.3780	0818	0976	1135				FN/L		.3780	.0858	0469 0740 3053	1635	1406
	(XE8842)			.3010	1554	1653	1783				2386.1		.3010	.0089	0792 1180 4136	2522	2204
				.2510	3103	2840	2967				۵.		.2510	0136	1578 1883 3499	5563	3764
				.2040	5803	-1.2055	-1.4276	1.0460	.0140		4.20		.2040	0204 0227 .0047	0147 0745 1531 2627	4121	-1.4321
	FUSELAGE			0771.	3184	2854		1.0180	. 1444		* 55g4		0771.			0.756	0910
11-073-1	ORB B			. 1660	. 0948	. <i>TTS</i> .	.2620	9990	7060	3736 3736	o		. 1660	0264 0200 0215	.0372 .0334 .0334	.4186	. 3908
B (AMES	-140A/B/C/R		BLE CP	. 1580		,	. 4453	.9600	0111 0402 2318 2902 3348	4306 3478 2767 3348	44965.	ale cp	. 1580				.5545
A - 0A148	11-073(0A148)		NT VARIABLE	.1120	. 0235		.1204	.9210	0970 0785 2474 3052	4613 3585 3653 3657	MACH ==	NT VARIABLE	.1120	0033	1588	. 0905	
RESSURE DATA	5 11-073	8.292	DEPENDENT	.0700	.0011		.0778	.8790	0815 0767 2709 3422	5924 5128 4736 3393	.888	DEPCNDENT	.0700	. 0533 . 1573	. 2304 . 2304 . 1178	.0358	
ä	AMES	9		0940.	.0757		. 1245	.8210	1029 0726 1048 1173	1013 .0757 .2753	7- = (.0460	. 1126 . 1692 . 2517	.3345 .3345 .3008 .2003	5160.	
TABULATED		BETA (S	AGE	.0230	. 1416		.2051	0677.	0370 0133 2045 1401	0317 .0505 .0767 .0844	BETA (1	P CE	.0230	. 2333 2387 7893	. 5141 . 5141 . 4763 . 3461	. 1819	
		3.985 81	ER FUSELAGE	.0080			.3429	.7290	. 2872 2872	0410	.905 BR	ER FUSELAGE	. 0080	.6406	.639		
3.76		m m	110RB1TER	. 0000			1666.	.6520	.0249 .0362 2571	1173 0732 0753 0961	- 7.9	1109B1TER	0000.	. 9709			
DATE 10 FEB		ALPHA (3)	SECTION (א/רם	PHI 140.000 150.000 151.000	162.000 165.003 169.000	1 14 000 000 1 000	X/LB	## 14.000000000000000000000000000000000000	10000000000000000000000000000000000000	ALPHA (4)	SE - T10N C	X/LB	616363	44 46 96 96 96 96 96 96 96 96 96 96 96 96 96	3 4 3 6	14 0.000 1.0000 1.0000 1.0000 1.0000

DATE 10 FEB 76	.B 76		TABULATED PI	TED PRES	RESSURE DATA	A - 0A148 (B (AMES	AMES 11-073-1	_					PAGE	633
				AMES	5 11-073	11-073(0A148)	-140A/B/C/R		ORB FUSSLAGE			(XE8B42)	342)		
ALPHA (4)		7.905 BE	BETA (1)	r	. 888								-		
SECTION (1.0RB1 TER	ER FUSELAGE	ige roe		DEPENDENT	NT VARIABLE	BLE CP								
X: E	0000.	.0080	.0230	.0460	.0700	.1120	.:580	. 1660	.1770	.2040	33.	.3010	.3780	.4970	.5740
PH1 180.000	6066	.2710	.0753	06,0	.00£	.0663		.1707	•	-1.717	3161	1804	1126	1036	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH	.0948 .1131 3331 2634	. 2578 1875	.099 .0481 0915 0263	0470 0125 .1015 .1653	0439 0411 0802 1540	0692 0450 0903 1323	. 0112 0280 1264 1706	į	.3085	.0182 .0248					
18.00 18.00	3485 1567 1249 1202	1867	.0542 .1389 .1529 .1256	.5064 .2749 0971	2379 2333 2386 1206	1739 1389 0828	1799 1930 1181 3055	5048. 							
ALPHA (4)		7.915 BE	BETA (2)		-3.855 M	MACH	.59644	σ	* 59t	594.20	•	* 2386.1	FRAZL	•	4.8802
SECTION (11 ORBITER FUSELAGE	Š		DEPENDENT	UT VARIABLE	BLE CP								
X/LB	. 0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	0185	.3010	.3780	0.4970	.5740
9HI .000 20.000	1.0222	.6798	.3113	. 1398	.0676	.0143		0069		0062 0085	0001	.0225	.0534	0.0970	.1103
95.000 70.000 95.000 80.000		.5049	. 4058 . 4058 . 3788 . 919	. 2373 . 2373 . 2112 . 1622	1759 1759 1762 1262 0785	. 0846 . 0846 . 0810 . 0810		0047 0299 0372		0130 0825 1428 2247 3253	2080 2308 3540	1145 1483 3605	0813 0957 2268	0713 0875 2200	
140.000 150.000 151.000			. 1843	. 0968	.0475	. 1035		.3829	6000	4584 6928	4765	2012	1147	0981	
162.000 169.000 159.000							i	.3885		-1.3991	3319	1806	0983	0789	
180 000	1.0222	.2795	.1135	.0823	.0366	. 1969	,	.2623	•	-1.5926	2840	1507	0763	3706	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PH1 .000 40.030	.: 167 301:	.0712	.0463	0393	0381	0509	.0168 0156		.3051	.0039					

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FUSELAG
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3(0A148)
1-073(0A)

AME

-3.855

7.315 BETA (2) =

ALPHA (4) =

DATE 10 FEB 76

				4.8802		.5740	.1093	.1356							
						0.64	. : 034	2470.	0937 0928 1384	0698	0546	0582			
				RN/L		.3780	.0594	.0556	1074 1103 1546	0747	- 0000-	0648			
				2386.1		.3010	. 0266	.0255	1515 1662 3126	1716	- 1498	- 1389			
				a		.2510	9400.	0222	2463 2712 3542	4032	- 3038	2745			
	1.0460			594.20		.2040	0046	- 0-56 - 0-56		7.18	.3376	.9413	1.0460	. 0361 0320	
	1.0180			± 594		.1770					1071	7	1.n180	. 1991	
	ე666.	3386 2741		o		.1660	.0003	0111	0981 1109 0308	.3033	.3509	.3147	0666		2919
0.7 13.85		1494 1894 2415 2105	1416	.59644	RE CP	.1580					t	710.	.9600	. 0187 0172 1884 2251	650 780 619
DEPENDENT VARIABLE	.9210	1300 1744 2088 2165	1214 0906	MACH =	IT VARIABLE	.1120	9600	. 03450 6450	7600 7600 7600 7600	. 0868		.1102	.9210	0604 0396 1851 2588	
DEPENDE	.8790	1337 1601 2280 2912	2101 0099	.180 M	DEPENDENT	.0700	.0712	.0887	0540 5440 7650	. 0382		.0498	.8790	0389 0396 1950 2528	
	.8210	.0425 .0910 .2014 .1526	.1339	p		.0460	1490	7071.	1152	.0979		. 0875	.8210	0461 0161 0161 0164	86.
AGE	0677.	1455 0657 .0034 .525	. 1439 . 1439 . 1367	BETA (3)	IGE	. 0230	.265 6 -2884	3440	2834 8634 8255	. 1660		.1320	3677.	. 0283 - 1730 - 1825 - 0825	
ER FUSEL	.7290	• • •	0085	.038 9£	110RBITER FUSELAGE	.0093	.6875		.3571			.2818	. 7290	.3226	0873
1109011	.6520	2539	1102 0893 0826	# 9.0	1.10R31TE	. 0000	1.0317					1.0317	.6520	. 1074 . 1169 3929 2825	1834 -
SECTION (1) ORBITER FUSELAGE	X'LB	PHI 70.000 99.000 105.000 110.000 135.000		ALFHA (4)	SECTION (x/LB	PH: .050 23.000	40,000 55,600	70.000 90.000 120.000	159,000	165, cco 165, coo	180.000	X/LB	74 - 44 - 44 - 44 - 44 - 44 - 44 - 44 -	

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	383X)
TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

					4.8802		.5749	. 1058	. 1222							
		-			•		.*970	. 3929	.0457	1076 0944 0880	0561	0354	0708			
(XE8842)					1 RBV/L		.3780	.0588	87.10.	1268 1071	0665	0706	0803			
(XE		•			= 2386.1		.3010	.0166	0220	1759 1765 2716	1512	1503	1495			
					٥		.2510	0026	0788	2919 3597	3620	. 2909	2885			
			1.0460		594.20		.2040	0139	.0939	. 3503 - 3503 - 4517	2286 7456	-1.3008	-1.5040	1.0460	.0192	
ES 11-07310A148) -140A/B/C/R ORB FUSELAGE			1.0180		* 59		.1770					* 600		1.0180	.3040	
C/R ORB			ე666 .		0		. 1660	0092		1559 1659 1792	五61.	Ó	. 2939	0866.		4230 3242
-140A/B/		BLE CP	.9600	3006	.5964	BLE CP	.1580						.4582	.9600	.0081 0245 2334 2609 3168	3332 2698 1914 3037
I DA 148)		DEPENDENT VARIABLE	.9210	1893	MACH =	NT VARIABLE	.1120		0178	0613 0627 0117	.0496		.0935	.9210	0717 0582 2398 2794	+.3618 +.2697 +.2501 2629
S 11-072	.180	DEPENDE	.8790	1084	. Q.44	DEPENDENT	.0700	.0571	.0232	0493 0391 0396	0002		.0322	.8790	0433 0445 8503 3237	4660 4001 3554 2145
AME	3) =		.8210	.4037	*		.0460	.1379	.0941	0910. 010. 0337	. 0685		.0704	.82:3	0504 0143 0820 0824	. 3256 . 3303 . 3555
	BETA (3	.AGE	.7790	1418	BETA (4)	AGE	. 0230	2545	.2397	1588 1588 173	. 1255		.1252	.7790	. 0250 . 0392 2156 1249	0245 .0380 .1274 .1179
	.038	1) ORBITER FUSELAGE	.7290	. 0056	8.035 E	110RBITER FUSELAGE	. 0080	.6641		1361			. 2.63	.7290	. 3472 - 3495 - 2495	1352 0281 . 0040
	e0	(1) ORB11	.6520	0729			.0000	1.0114					1.0114	.6520	.0990 .1080 3853 2855	1539 0791 0877
	ALPHA (4)	SECTION	X/LB	PH1 165.000 183.000	ALPHA (4)	SECTION (X/LB	1149 .000	40.000 40.000	20.000 20.000 20.000	150.000		174.000 180.000	X/LB	44. 44. 44. 44. 44. 44. 44. 44. 44. 44.	00000000000000000000000000000000000000

838		₹.9802		3740	.0892	.1027						,		4.8825		iste.	. 1670	44.22	
PAGE		•		.4970	.0948	.0170	1196 0998 0581	6725	6381	5 60::-				•		07g.	. 1513	.1722	1.0971 1.1442 1.588
	42)	RNY		.3780	₩.	0277	1335		0952	1198				BAVL BAVL		.3760	.0962	. 151 .	0940 1327 4843
	(XEBB42)	- 2386.1		3010	.0071	0885	1915 1752 2434	1563	1655	1882				- 2385.8		.3010	.0631	.1318	1180 1666 5551
		•		255.	0124	1573	3059 3042 3598	3305	2958	3245				0.		<u>8</u>	.0457	.1000	1813 2184 4255
		.20		.2040	0340	1641	3003 3928 5074	6127	-1.2813	-1.5144	1.0460	.0161		594.43		.2040	.0379	1080.	0793 1707 3235
_	ORB FUSELAGE	• 594		.1770					3418 3361	ı	1.0180	. 3064 . 1593		ਰੰ ਛ		1770			
11-073-1		o		. 1660	0255	1162 1162	2360 2360	.0774	100	.1963	.9990		4093	a		. 1660	.0441	1218	
I AMES	-140A/B/C/R	.53644	LE CP	. 1580						. 3932	.9600	. 0084 1.924 2.275 2.2764	- 3383 - 1048 - 3312 - 3348 - 3483	. 59658	KE CP	. 1580			
- 0A148	-073(0A148) -	MACH	IT VARIABLE	.1120	į	0820	1.1209	0075		. 0580	.9210	0696 0635 2729 3058			IT VARIABLE	.1120	9	188	. 1536 . 1516 . 0472
URE DATA	Ξ	8.296 MA	DEPLINDENT	.0700	.0366	0545	- 1425 - 1425 - 1238	0607		0159	.8790	0490 0513 2987 3677	4986 5862 5031 4711	.853 M	DEPENDENT	.0700	1500	-575.	. 2095 . 2005 . 0171
ED PRESSURE	AMES	•		.0450	.1207	• •	0528 0792 0808			.0361	.8210	0509 0168 1501	· · · · ·	.1500		.0460	. 222 422 630 630	3758	2002. 1929. 1989.
TABULATED		BETA (5)	30	.0230	.2223	1775	. 0408 10408 10408	(2+0. 0499.		.0346	0677.	. 2522 . 1350 2633	1.0954 1.0954 1.0314 1.0718	1 . 1090 BETA (1	ig.	. 0230	.3711	90.65 19.08	17.03. 1.03.9 1.03.9 1.03.9
			R FUSELAGE	. ისმი	.6278		.0122			. 1808	.7290	. 3695	1660	.910 98	R FUSELAGE	. 8383	. 7585		. 5506
75		- 8.035	t refat TER	.0000	.9528					.9528	.6520	. 3841 - 3841	1 519 0485 048	1292	: 109B17ER	. 2699	.9247		
DATE 10 FEB		ALPHA (4)	0.0110N	x/18	17	ci ci	완료인	ာက်က	ទី១១១ ១៦១១ ១០១១ ១០១១	m i i i i	80 : ' >:	446 446 946 966 966 966 966 966 966 966		•	KC1:33	at/x			ស្តីកុស្ត ពិទ្ធិពីដូ

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TABULATED PRESSURE DATA - DAIN3 (AMES 11-073-1) DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

-7.853

BETA

11.910

KPHA C 50

3- 1-1-1-1

8

(XEBBN2)

5 **SEP** -.2123 -. 1663 -. TE .3780 -. 2023 -. 1581 -. 1218 .W10 -.2488 - 1849 -.289 -.6220 -.4130 -.3271 -.4779 -.7616 . 20% -1.5763 -1.9618 1.0460 .0065 .0065 .3311 1.0180 9990 . 1660 3712 .3402 .1145 ESS. .1580 ¥879 -.1838 -.2112 -.1503 -.2821 .9600 .0347 -.0024 -.1100 -.1614 -.2076 DEPENDENT VARIABLE CP .1120 .01¥ .001Z .9210 -.0335 -.0058 -.0828 -.1224 -.1901 -.1701 -.0407 .0700 .0006 .0031 -.0938 -.1492 -.2683 -.2826 -.2820 -.772 -. O640 .8790 -.0666 .0460 -. 0286 -.0431 .8210 .0100 .0525 .0865 .1540 .3424 .2192 . 0230 0381 .0870 .1209 -.1390 -.0635 -.0430 .0073 .0570 .0570 .0570 .0570 .0770 7967 SECTION (1) ORBITER FUSELAGE .0080 - 3355 - 7±5 7290 1941 -.2303 -.0956 301. .0000 -.2143 -.2036 -.1859 .1693 .2068 -.4787 -.3695 -.477c **18.** .6520 140.000 150.000 151.000 162.000 165.000 174.000 70.000 90.000 105.000 110.000 1130.000 1135.000 165.000 160.000 X/LB

6 . O. .2156 151. 151. 151. 56. . 1619 .1498 -.1577 - 1178 Z 3760 - 1336 - 1516 - 3692 . 1120 Ĭ. 1.1 2385.8 3010 .0818 - 16th - 1915 9960 -.1957 -.2380 -.2313 . 5 5 6 -.3602 .0550 .0482 -. 5309 .0562 .0563 .0463 .0941 -.1516 -.2437 -.3759 -.3759 2040 -1.5367 54.5 -. 9213 -. 9953 170 .0705 .0753 .0304 -.0358 -.0491 . 1660 .3316 .1580 .98658 DEPENDENT VARIABLE CP .1120 0888 0757 0350 .0310 MCH . 1797 . 1819 . 2340 . 1823 . 1155 . 1163 .0700 -.0461 -3.836 .2928 .3297 .3297 .2921 .2141 .1638 .0550 .0460 -.0021 BETA (2) .0230 . 699 . 656 . 658 . 659 . 312 . 312 . 197 .0520 (1) ORBITER FUSELAGE .0080 .8108 .4233 11.930 .0000 956 ALPHA - 53 SECTION

-3.836

BETA (2) =

ALPHA (51 = 11.930

:XEBB42)

SECTION (:)ORBITER FUSELAGE	AGE		OEPENDE	DEPENDENT VARIABLE	IBLE CP								
X/LB	. 0030	.0380	.0230	.0460	.0700	.1120	. 1580	. 1660	0771.	.2040	.2510	.3010	.3780	0764.	STE
PH1 180.000	96 46.	. 1 089	0095	0111	0447	.0333		.2065	ř	-1.8141	2964	- 155	0849	0903	
X/LB	.6520	. 7290	0677.	.8210	.6790	. 9210	.9600	.9990	1.0180	1.0460					
PHI . CGG . CGG 76. CGG 93. CGG 105. CGG	.5038 .5038 .5151 3827	. 1418. 3886 2714	. 1178 2099 1059	.0137 .0523 .0060 .0610	. 2039 . 0026 . 1487 . 1731	0342 0096 1344 1680	.0369 0021 1432 1870	į	. 3282 . 2273	.0415 0183					
120.000 135.000 150.000 163.000	3471 2120 11439 1153	1009	.0533 .0554 .0548 .0449	. 1376 . 1376 . 2604	2930 2390 1865 0036	2238 1699 1482 0946	2108 2150 1635 2944	341 280 5							
ALPHA (5)		11.966 80	BETA (3)		.177 M	MACH .	. 59658	ø	300	594.43	•	2385.8	FRV/L	•	*.8825
SECTION (1) ORBITER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	. 0000	. 0030	. 0230	.0460	.0730	. 1120	. 1580	. 1660	.i770	.20%0	0185	.3010	.3780	578.	5740
PH1 .036 20.000	1656.	.8221	13 CC CC CC CC CC CC CC CC CC CC CC CC CC	. 2655 8.75 8.75	.1783	5		.0678	_	.0501	.0634	.0827	. 1149	1 691 .	.1787
40.000 55.000			. 4213 3258	7.40. 7.40. 7.40.	1669	500.1				0124	0143	.0421	. 0960	.1289	.1956
70.303 90.000 120.000		.2739	. 2554 . 2082 . 1310	.0938 .0745	.0273 043+	0036		1064 1165 0475			2837 2992 4050	2083 2095 4002	1623	1516 1560 2386	
150.000 151.000			.0535	0007	0415	.0346		.2763	1861		4369	198		1089	
162.030 165.030 169.030								. 2965.		-1.44.94	3151	- 1914	0831	G*50.÷	
180.036	1656	. 1094	.0077	0076	0225	.0457	.4033	.2567	•	-1.6872	2853	- 1415	. 1470	0681	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 .000 .000	.1780 7721.	1441.	.0938	.0165	.010. 0006	029-	.0426 .00		3318	. 0539					

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I AMES 11-073-1)
- 04148
ABULATED PRESSURE DATA
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TABUL
) FEB 76
DATE 10 FEB

(XEBB42) 1 0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 1.0180 **9886** .9600 DEPENDENT VARIABLE CP .921 .8790 .8210 .7790 BETA SECTION 1 110RBITER FUSELAGE .7290 11.966 .6520 ALPHA (5)

pro to

2385.8 594.43 -.3696 -.2859 -.2616 -.2339 -.1649 -.3062 -.1889 -.2204 -.2764 .59658 DEPENDENT VARIABLE CP -.2047 -.2790 -.2256 -.1886 -.2050 4.252 MACH = -.2267 -.3501 -.3301 -.2778 -.1269 -. 0675 -. 0244 . 0259 .1141 .2604 .4857 .4219 BETA (4) -.2407 -.1421 -.0331 .0285 .0232 .1076 .1287 11 ORBITER FUSELAGE -.4257 -.1343 -.0897 -.0138 **11.976** -.1599 -.1069 -.1028 -.2347 -. 5426 -. 3953 PHI 70.000 90.000 110.000 1135.000 1150.000 1150.000 1150.000 1150.000 1165

5740 1758 市に .4970 -.1902 -.1605 -.1403 . GB47 . 1601 -.1841 -.1677 -.1675 .3780 .1150 .0330 -.2331 -.2158 -.3272 .3010 -.0317 .0731 .2510 -.3126 -.3170 -.3872 .0526 -.1030 .2040 .1770 .0553 .0318 .0318 -.1896 -.1696 -.1786 . 1660 . 1580 .0673 .0150 -.1216 -.0722 -.0677 .1120 . 1604 . 1255 . 0749 - 0738 - 0534 - 0886 .0700 . 252. . 2267. . 1654. . 0404. . 0035. . 0133. .0460 .0230 .3925 .3626 .3022 .1841 .1321 .1058 .0980 . 1206 .7956 ე000: 9428 ALPHA (5) SECT ION

-.3818 -.2980 -.2957 -1.6912 -1.3897 . 246B . 168¥ .2387 .4131 .0095 .0363 -.0°48 -.0116 -.0147 .0166 0223 .0804 PHI .000 20.000 50.000 70.000 120.000 150.000 151.000 163.000 163.000 187.000 187.000

" 0

65 D.

-.0768

-.0703

-. 1495

-.0889

-.0836

-.1516

1.0460

1.0180

.9990

.9600

-. 0532

3291

.0390 -.0012 -.2584 -.2584

-.3403 -.2522 -.2057

-.0567

-.1110

-. 0894

-.0786

-. 1573

.9210 -.0362 -.0323 -.2634 -.2797 .0057 -.0108 -.2840 -.3500 .8790 -.0492 .3483 .4268 .0137 .0454 -.1330 -.1401 .8210 .0888 .1059 -.2750 -.1316 -.0920 .0593 .1213 .7790 -.4422 .7290 .1445 -. 1891 . 1730 . 1830 . 5258 . 3916 .6520 -.2211 70.000 70.000 70.000 90.000 110.000 125.000 150.000 Ŧ X/LB

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DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				4.8825		.5740	. 1606	. 1452						•			•	?	
				•		.4970	. 1481	.0471	2241	1628	0741	1006	1376						
				RN/L		.3780	. 0999	0334	2107	1633 1034	JZZZ	0942	1330						
				2385.8		.3010	.0636	1063	2452	2185	1560	1654	1974						
				•		.2510	.0440	2069		3274	3417	2976	3254						
		1.0460				.2040	1440.	1921			6400 8295	.3622	-1.7412	1.0460	.0396				
		1.0180		594.43		.1770		•		•		3516 3761 -1	•	0810.1	. 3263				
		0666		o		. 1660	.0500	0027 1125	. 2665	2257 1082	.0585		. 1440	0666.		!	4168 3482		
	LE CR	.9600	3067	. 59658	LE CP	.1580							.3402	.9600	.0333		4081	2786 3234	
	DEPENDENT VARIABLE	.9210	2847	* 5	DEPENDENT VARIABLE	.1120		.0308	2250 1386	1251	0430		0027	.9210		2886 3134 3960		3812	
4.252	DEPENDEN	.8790	2387	8.318 MACH	DEPENDE	.0700			1557 1609		1148		0873	.8790		3917 5670		5213	
		.8210	. 3969	Ħ		.0460	.2377	.1760	910	1084 1978	0591		0344	.8210	076 399	2003 2133 1958	193 923		.1891
BETA (4)	Ę,	0677.	. 1098 . 0978	BETA (5)	ige 1	. 0230	.3685	.2936 .1699			0332		0271	.7790		3141 2672 2123	1557	9040	1410.
	1) ORBITER FUSELAGE	.7290	0441		R FUSELA	.0080	.7597			0559			.0140	.7290	.1377	4608 3752	2654	0836	1359
= 11.976		.6520	0965 1257	0965 1257 = 12.034	1 3 ORBITE	.0000	.8808						.8808	.6520	.1552	5243 3999	2467	1212	1932
ALPHA (5)	SECTION (X/LB	PH1 155.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	РН1 .000	20.000 40.000	55.000 70.000	1,00,000 1,00,000	150.000	151.000 162.000 165.000	159.000 174.000 180.000	X/L9	PH1 .000 .000	77.000 90.000 105.000	1.0.000 120.000 185.000	150.000	180.030

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